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ALOG
OF THE
ASCULAR CRY

RTH-EASTERN PORTION OF THE
he South, and Missouri, I

in botanical exchanges, is intended to
portion of North America to which resident collectors are at present mostly confined. To illustrate the distributio

is generally given, in parentheses; by this method the synonymy is much abbreviated. For valuable contribu
Prof. T. C. PORTER, of Lafayette College, Dr. GEORGE ENGELMANN, of St. Louis,

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CURTISS, NORTH AMERICAN PLANTS.

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CATALOGUE
OF THE
PHÆNOGAMOUS AND VASCULAR CRYPTOGAMOUS PLANTS
OF CANADA AND THE NORTH-EASTERN PORTION OF THE UNITED STATES,
Including Virginia and Kentucky on the South, and Missouri, Iowa and Minnesota on the West.

EXPLANATIONS:—The following Catalogue, prepared especially for use in botanical exchanges, is intended to include all the Phænogams and Vascular Cryptogams of that portion of North America to which resident collectors are at present mostly confined. To illustrate the distribution of plants in this territory, carefully compiled Floras are given of the three most dissimilar sections east of the Mississippi: the first dotted column (headed C at upper left-hand corner of pages,) represents the flora of Canada; the second (headed I), that of Illinois; the third (headed V), that of Virginia. In the column headed E, the *'s indicate which plants are found also in Europe; the w's, which are found only west of the Mississippi. The Catalogue is adapted for use with the leading Manuals of Botany by the introduction of Synonyms, which are printed in Italics; but the nomenclature adopted by Prof. Gray is given precedence, and the same authority is followed in regard to natural arrangement and the citation of authors. A † refers to Gray's Manual of Botany, 2d, 3d and 4th Editions; a ‡, to same, 5th Edition; a ‖, to Chapman's Southern Flora; a ⸹, to Wood's Botanist & Florist; a * (at right), to standard European Manuals. The Carices alone are arranged alphabetically, but numbers are affixed showing their position in Gray's arrangement. A dash denotes a repetition of the name next above (differences in inflection being understood). Varieties are preceded by the first Greek letters; when there is a var. *a*, it is considered that the specific name is merely comprehensive, or that it represents a typical form not found within these limits. When a variety was originally described as a species under the same name, the name of the original author is generally given, in parentheses; by this method the synonymy is much abbreviated. For valuable contributions to the present work, special acknowledgment is due to Prof. T. C. PORTER, of Lafayette College, Dr. GEORGE ENGELMANN, of St. Louis, JOHN MACOUN, Esq., of Belleville, Canada, and Dr. HENRI VAN HEURCK, of Antwerp.

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ALLEN H. CURTISS.

Price: 1 Copy, 20 Cents; 3 Copies, 50 Cents; 7 Copies, One Dollar.

E.C.I.V. **RANUNCULACEÆ**
CLEMATIS
.. .. verticillaris, DC.
(*Atragene Americana*, Sims. †‖
.. ochroleuca, Ait.
.. .. Viorna, L.
.. Pitcheri, Torr. & Gray.
.. cylindrica, Sims.
(*crispa*, L.‖⸹
.. .. .. Virginiana, L.
ANEMONE
patens, L.:
.. *a*. Nuttalliana, (DC.)
(*Pulsatilla*—, Gray. †
.. Caroliniana, Walt.
.. parviflora, Michx.
.. multifida, DC.
.. .. cylindrica, Gray.
.. .. .. Virginiana, L.
.. .. .. Pennsylvanica, L.
* .. trifolia, L. ?
* .. .. .. nemorosa, L.
HEPATICA
* .. .. .. triloba, Chaix.
.. .. acutiloba, DC.
THALICTRUM
.. .. .. anemonoides, Michx.
(*Anemone thalictroides*, L. ⸹
.. .. .. dioicum, L.
.. .. purpurascens, L.
.. β. ceriferum, Austin.
.. .. .. Cornuti, L.
.. clavatum, DC.
TRAUTVETTERIA
.. .. palmata, Fisch. & Mey
ADONIS
* autumnalis, L.
RANUNCULUS
* .. .. divaricatus, Schrank.
(*aquatilis*, L., *v.*—, Gr†
* .. .. aquatilis, L., *a*. trichophyllus, (Chaix.)
* β. heterophyllus, DC.
* .. hederaceus, L.
.. .. .. multifidus. Pursh.
(*Purshii*, Richards.†‖
β. terrestris, Gray.
.. alismæfolius, Geyer.
Flammula, L.:
.. *a*. intermedius, Gray.
* .. .. β. reptans, (L.) Gray.
.. oblongifolius, Ell.
.. pusillus, Poir.
.. .. Cymbalaria, Pursh.
.. β. alpina, Torr. & Gr.
.. .. rhomboideus, Goldie.
.. .. .. abortivus, L.
.. .. β. micranthus, (Nutt.)
* .. .. .. sceleratus, L.
.. .. .. recurvatus, Poir.
.. .. .. Pennsylvanicus, L.
.. .. fascicularis, Muhl.
* .. .. .. repens, L.
* .. bulbosus, L.
* .. .. acris, L.
* .. muricatus, L.
* .. parviflorus, L.
MYOSURUS
* .. .. minimus, L.
ISOPYRUM
.. biternatum, T. & Gr.
CALTHA
* .. .. .. palustris, L.
TROLLIUS
laxus, Salisb.
COPTIS
* .. trifolia, Salisb.

HELLEBORUS
* viridis, L.
NIGELLA
* Damascena, L.
AQUILEGIA
.. .. .. Canadensis, L.
* vulgaris, L.
DELPHINIUM
.. exaltatum, Ait.
.. .. tricorne, Michx.
.. azureum, Michx.
* .. .. .. Consolida, L.
ACONITUM
.. uncinatum, L.
.. reclinatum, Gray.
ZANTHORHIZA
.. apiifolia, L'Her.
HYDRASTIS
.. .. .. Canadensis, L.
ACTÆA
.. .. spicata, L. *a*. rubra, Mx
.. .. .. alba, Bigel.
(*spicata*, *v.*—, Mx. †⸹
CIMICIFUGA
.. .. racemosa, Ell.
.. .. Americana, Michx.
MAGNOLIACEÆ.
MAGNOLIA
.. glauca, L.
.. .. acuminata, L.
macrophylla, Michx.
.. .. Umbrella, Lam.
.. Fraseri, Walt.
LIRIODENDRON
.. .. .. Tulipifera, L.
ANONACEÆ.
ASIMINA
.. .. triloba, Dunal.
MENISPERMACEÆ
COCCULUS
.. .. Carolinus, DC.
MENISPERMUM
.. .. .. Canadense, L.
CALYCOCARPUM
.. Lyoni, Nutt.
BERBERIDACEÆ.
BERBERIS
* .. vulgaris, L
.. Canadensis, Pursh.
CAULOPHYLLUM
.. .. .. thalictroides, Michx.
DIPHYLLEIA
.. cymosa, Michx.
JEFFERSONIA
.. .. .. diphylla, Pers.
PODOPHYLLUM
.. .. .. peltatum, L.
NYMPHÆACEÆ.
CABOMBA
Caroliniana, Gray.
BRASENIA
.. .. .. peltata, Pursh.
NELUMBIUM
.. .. luteum, Willd.
NYMPHÆA
.. .. .. odorata, Ait.
.. β. minor, (DC.) Sims.
.. .. tuberosa, Paine.
NUPHAR
.. .. .. advena, Ait.
* luteum, Smith.
* .. β. pumilum, (Hoppe.)
(*Kalmiana*, Pursh. †⸹
SARRACENIACEÆ.
SARRACENIA
.. .. .. purpurea, L.
β. heterophylla, Torr.
.. flava, L.
(*Gronovii*, Wood, *v.*–, ⸹

PAPAVERACEÆ.
PAPAVER
* .. .. somniferum, L.
* .. dubium, L.
* argemone, L.
ARGEMONE
.. .. Mexicana, L.
STYLOPHORUM
.. diphyllum, Nutt.
(*Meconopsis*—, DC. ⸹
CHELIDONIUM
* .. .. .. majus, L.
SANGUINARIA
.. .. .. Canadensis, L.
GLAUCIUM
* .. luteum, Scop.
FUMARIACEÆ.
ADLUMIA
.. .. cirrhosa, Raf.
DICENTRA
.. .. .. Cucullaria, DC.
.. .. Canadensis, DC.
.. .. eximea, DC.
CORYDALIS
.. .. .. glauca, Pursh.
.. flavula, Raf.
(*aurea*, *v.*—, Wood. ⸹
(*aurea*, in part. †‖
.. .. aurea, Willd.
w β. occidentalis, Eng.
.. γ. micrantha, Eng.
w crystallina, Engelm.
FUMARIA
* .. .. officinalis, L.
CRUCIFERÆ.
NASTURTIUM
* .. .. .. officinale, R.Br.
* .. .. sylvestre, R.Br.
.. .. sinuatum, Nutt.
.. sessiliflorum, Nutt.
.. obtusum, Nutt.
* .. .. .. palustre, DC.
.. β. hispidum, (DC.) Gr.
.. .. .. lacustre, Gray.
(*Armoracia Americana*, Arn. ⸹
* .. .. Armoracia, Fries.
(*Cochlearia*——, L. *
(*A. rusticiana*, Rupp. ⸹
LEAVENWORTHIA
Michauxii, Torr.
DENTARIA
(*CARDAMINE* ⸹)
.. .. diphylla, L.
.. maxima, Nutt.
.. heterophylla, Nutt.
.. .. .. laciniata, Muhl.
CARDAMINE
.. .. .. rhomboidea, DC.
.. .. β. purpurea, Torr.
.. .. rotundifolia, Michx.
* bellidifolia, L.
* .. pratensis, L.
* .. .. .. hirsuta, L.
* .. .. .. β. sylvatica, (Link.)
(*v. Virginica*, (Mx.) ‖
ARABIS
.. Ludoviciana, Meyer.
(*Cardamine*–, Hook.‖
.. .. .. lyrata, L.
* .. petræa, Lam.
.. .. dentata, Torr. & Gray.
patens, Sullivant.
* .. .. .. hirsuta, Scop.
.. .. .. lævigata, DC.
β. minor, Porter.
.. .. .. Canadensis, L.
.. .. hesperidoides, Gray.
(*Iodanthus*–, T. & G†‖⸹

* .. perfoliata, Lam.
(*Turritis glabra*, L.*†⸹
.. .. Drummondii, Gray.
(*T. stricta*, Graham.†⸹
.. β. brachycarpa, (T. & G)
BARBAREA
* .. .. vulgaris, R.Br.
* .. β. stricta, (Andrz.)
* γ. arcuata, (Reich.)
* .. .. præcox, R.Br.
ERYSIMUM
* .. .. cheiranthoides, L.
w asperum, DC.
.. β. Arkansanum, Nutt.
* orientale, R.Br.
HESPERIS
* matronalis, L.
SISYMBRIUM
* Alliaria, Scop.
* .. .. .. officinale, Scop.
* .. .. Thaliana, Gaud.
(*Arabis*——, L. *⸹
.. .. .. canescens, Nutt.
* .. Sophia, L.
STANLEYA
w pinnatifida, Nutt.
BRASSICA
* .. .. Sinapistrum, Boissier.
(*Sinapis arvensis*, L.†⸹
* .. .. alba, Boissier.
(*Sinapis alba*, L. †⸹
* .. .. .. nigra, Boissier.
(*Sinapis nigra*, L. †⸹
* .. .. campestris, L.
DRABA
* .. alpina, L.
.. Canadensis, Brunet.
.. ramosissima, Desv.
.. arabisans, Michx.
* incana, L.
.. β. contorta, Ehrh.
.. .. brachycarpa, Nutt.
nemorosa, L.:
.. *a*. nemoralis, (Ehrh.)
β. lutea, (DC.)
.. cuneifolia, Nutt.
.. .. .. Caroliniana, Walt.
.. β. micrantha, (Nutt.) Gr
* .. verna, L.
(*Erophila*——, L. *
ALYSSUM
* maritimum, L.
* calycinum, L.
VESICARIA
Shortii, Torr. & Gray.
CAMELINA
* .. .. .. sativa, Crantz.
SUBULARIA
* aquatica, L.
CAPSELLA
* .. .. .. Bursa-pastoris, Mœnch
THLASPI
* .. .. arvense, L.
LEPIDIUM
.. .. .. Virginicum, L.
.. .. intermedium, Gray.
* .. ruderale, L.
* .. .. campestre, L.
* Draba, L.
SENEBIERA
* .. .. didyma, Pers.
(*pinnatifida*, DC. ‖
* .. Coronopus, DC.
CAKILE
.. .. .. Americana. Nutt.
(? *maritima*, Scop. *⸹
(*maritima*, *v. æqualis*, (L'Her.) ‖

RAPHANUS
* .. Raphanistrum. L.
* sativus, L.
CAPPARIDACEÆ.
POLANISIA
.. .. graveolens, Raf.
CLEOME
pungens, Willd.
.. integrifolia, T. & Gr.
GYNANDROPSIS
.. .. pentaphylla, DC.
RESEDACEÆ.
RESEDA
* Luteola, L.
VIOLACEÆ.
SOLEA
.. .. concolor, Ging.
VIOLA
.. rotundifolia, Michx.
.. .. .. lanceolata, L.
.. .. primulæfolia, L.
.. .. .. blanda, Willd.
renifolia, Gray.
* odorata, L.
* .. palustris, L.
* .. Selkirkii, Ph., Goldie.
(*umbrosa*, Fries. *
.. .. .. cucullata, Ait.
.. .. .. β. palmata, (L.)
.. γ. cordata, (Walt.)
(*villosa*, Walt. †‖
.. .. .. sagittata, Ait.
.. .. β. ovata, (Nutt.)
.. delphinifolia, Nutt.
.. .. pedata, L.
.. β. bicolor.
canina, L.:
* .. .. .. *a*. sylvestris, (Lam.)
(*Muhlenbergii*, Tor†‖⸹
.. rostrata, Pursh.
.. .. .. striata, Ait.
.. .. Canadensis, L.
.. .. .. pubescens, Ait.
β. eriocarpa, Nutt.
.. γ. scabriuscula, T. & G.
.. hastata, Michx.
w Nuttallii, Pursh.
* tricolor, L.
* .. .. .. β. arvensis, (Murr.) DC
CISTACEÆ.
HELIANTHEMUM
.. .. .. Canadense, Michx.
.. corymbosum, Michx.
HUDSONIA
.. .. ericoides, L.
.. tomentosa, Nutt.
LECHEA
.. .. major, Michx.
.. thymifolia, Pursh.
Novæ-Cæsareæ, C.F. Austin.
.. .. .. minor, Lam.
DROSERACEÆ.
DROSERA
* .. .. rotundifolia, L.
* .. .. longifolia, L.
(*intermedia*, Hayne.*
.. linearis, Goldie.
.. filiformis, Raf.
HYPERICACEÆ.
ASCYRUM
.. stans, Michx.
.. .. Crux-Andreæ, L.
HYPERICUM
.. .. pyramidatum, Ait.
.. .. Kalmianum, L.
.. .. prolificum, L.
.. .. β. densiflorum, (Ph.)
adpressum, Barton.

dolabriforme, Vent.
.. .. nudiflorum, Michx.
.. sphærocarpon, Michx
.. ellipticum, Hook.
.. angulosum, Michx.
* .. .. .. perforatum, L.
.. .. .. corymbosum, Muhl.
.. .. .. mutilum, L.
.. .. β. gymnanthum, Gray.
.. .. .. Canadense, L.
.. β. major, Gray.
.. Drummondii, T. & Gr.
.. .. Sarothra, Michx.
ELODES
.. .. .. Virginica, Nutt.
.. .. petiolata, Pursh.
ELATINACEÆ.
ELATINE
.. .. Americana, Arnott.
Clintoniana, Peck.
CARYOPHYLLACEÆ
DIANTHUS
* .. .. Armeria, L.
* prolifer, L.
SAPONARIA
* .. .. .. officinalis, L.
VACCARIA
* .. .. vulgaris, Host.
(*Saponaria Vaccaria*, L. *⸹
SILENE
.. .. stellata, Aiton.
.. nivea, DC.
* .. inflata, Smith.
.. Pennsylvanica, Michx
.. .. .. Virginica, L.
.. regia, Sims.
rotundifolia, Nutt.
* .. .. Armeria, L.
.. .. .. antirrhina, L.
* nocturna, L.
* .. noctiflora, L.
* .. acaulis, L.
LYCHNIS
* diurna, Sibth.
(*dioica a*, L. *
* vespertina, Sibth.
(*dioica β*, L. *
(*Melandrium*–, C. & G*
* .. .. .. Githago, Lam.
(*Agrostemma*—, L. †‖
(*Githago segetum*, Df.*
ARENARIA
* .. .. serpyllifolia, L.
.. squarrosa, Michx.
(*Alsine*——, Fenzl.†‖
.. .. .. stricta, Michx.
(*Alsine Michauxii*, Fenzl. †‖
.. patula, Michx.
(*Alsine*——, Gray. †‖
w Pitcheri, Nutt.
Grœnlandica, Spreng.
(*Alsine*——, Fenzl.†
* .. .. lateriflora, L.
(*Mœhringia*——, L. †
* .. peploides, L.
(*Honkenya*—, Ehrh.†
STELLARIA
* .. .. .. media, Smith.
.. pubera, Michx.
* Holostea, L.
* .. .. longifolia, Muhl.
* .. longipes, Goldie.
* .. uliginosa, Murr.
* .. crassifolia, Ehrh.
* .. borealis, Bigel.
* β. alpestris, (Fries.)
* humifusa, Rottbœll.

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MISSOURI BOTANICAL GARDEN

HOLOSTEUM
* umbellatum, L.
CERASTIUM
*.. .. .. vulgatum, L.
(*glomeratum*, Thuil. *
*.. .. .. viscosum, L.
(*triviale*, Link. *
.. .. .. nutans, Raf.
.. β.brachypodum,Eng.
.. .. .. oblongifolium, Torr.
*.. arvense, L.
* quaternellum, Fenzl.
(*Mœnchia*———, §
(*Sagina erecta*, L. *
(*Mœnchia*——,Ehrh. *
SAGINA
*.. procumbens, L.
* .. apetala, L.
* .. subulata, Wimmer.
(*Elliottii*, Fenzl. ‖
β. Smithii, Gray.
*.. .. nodosa, Fenzl.
(*Spergula*———, L.*
SPERGULARIA
rubra, Presl. :
.. α. campestris, Gray.
*.. .. salina, Presl.
*.. .. media, Presl.
* .. β. macrocarpa,(Presl.
(*marina*, Cambess. §
SPERGULA
*.. .. .. arvensis, L.
ANYCHIA
dichotoma, Michx. :
(*Paronychia Canadensis*, Wood. §
.. .. α. capillacea, (Nutt.)
.. .. β. dichotoma, (DC.)
(? *v. pumila*, Wood. §
PARONYCHIA
.. argyrocoma, Nutt.
.. dichotoma, Nutt.
SCLERANTHUS
*.. annuus, L.
MOLLUGO
.. .. .. verticillata, L.
PORTULACACEÆ.
SESUVIUM
.. pentandrum, Ell.
PORTULACA
*.. .. .. oleracea, L.
TALINUM
.. .. teretifolium, Pursh.
CLAYTONIA
.. .. .. Virginica, L.
.. .. .. Caroliniana, Michx.
MALVACEÆ.
ALTHÆA
* officinalis, L.
MALVA
*.. .. .. rotundifolia, L
*.. .. sylvestris, L.
*.. .. crispa, L.
*.. moschata, L.
* Alcea, L.
CALLIRRHOE
.. triangulata, Gray.
(*Malva*——, Leav. §
w digitata, Gray.
alcæoides, Gray.
(*Sida*———,Michx.§
NAPÆA
.. .. dioica, L.
MALVASTRUM
w angustum, Gray.
w coccineum, Gray.
SIDA
Napæa, Cav.
.. Elliottii,Torr. & Gr.
.. .. spinosa, L.
ABUTILON
*.. .. .. Avicennæ, Gærtn.
(*Sida abutilon*, L. *
MODIOLA
.. multifida, Mœnch.
KOSTELETZKYA
.. Virginica, Presl.
HIBISCUS
.. .. .. Moscheutos, L.
β. flavescens, Wood.
(*incanus*, Wendl. ‖
.. grandiflorus, Michx.
.. .. militaris, Cav.
*.. .. .. Trionum, L.
* .. Syriacus, L.
TILIACEÆ.
TILIA
.. .. .. Americana,L.
.. .. .. β. pubescens, (Ait.)
(*v. Walteri*, Wood. §
.. heterophylla, Vent.
CAMELLIACEÆ.
STUARTIA
.. Virginica, Cav.
pentagyna, L'Her.

GORDONIA
.. Lasianthus. L.
LINACEÆ.
LINUM
.. .. .. Virginianum, L.
β. angustifolium,Eng.
.. .. striatum, Walt.
.. .. .. sulcatum, Riddell.
(*Boottii*, Planchon.†‖
w rigidum, Pursh.
* .. .. usitatissimum, L.
*.. perenne, L.
GERANIACEÆ.
GERANIUM
.. .. .. maculatum, L.
.. .. .. Carolinianum, L.
* dissectum, L.
* .. columbinum, L.
*.. pusillum, L.
*.. .. .. Robertianum, L.
ERODIUM
* cicutarium, L'Her.
FLŒRKIA
.. .. proserpinacoides,Wld
IMPATIENS
.. .. .. pallida, Nutt.
*.. .. .. fulva, Nutt.
OXALIS
*.. .. Acetosella, L.
.. .. violacea, L.
*.. .. .. stricta, L.
*.. corniculata, L.
RUTACEÆ.
ZANTHOXYLUM
.. .. Americanum, Mill.
.. Carolinianum, Lam.
PTELEA
.. .. trifoliata, L.
RUTA
* .. graveolens, L.
SIMARUBACEÆ.
AILANTHUS
.. glandulosus, Desf.
ANACARDIACEÆ.
RHUS
.. .. .. typhina, L.
β. laciniata, Wood.
.. .. .. glabra, L.
.. .. .. copallina, L.
.. .. venenata, DC.
.. .. .. Toxicodendron, L.
.. .. .. β.radicans,(L.)Torr.
.. .. .. aromatica, Ait.
VITACEÆ.
VITIS
.. .. Labrusca, L.
.. .. æstivalis, Michx.
.. β. ? cinerea, Engelm.
.. .. .. cordifolia, Michx.
.. .. .. riparia, Michx.
w rupestris, Scheele.
.. .. vulpina, L.
.. .. indivisa, Willd.
.. .. bipinnata, Torr.& Gr.
AMPELOPSIS
.. .. .. quinquefolia, Michx.
(*Vitis*——, Lam. §
RHAMNACEÆ.
BERCHEMIA
.. volubilis, DC.
RHAMNUS
*.. catharticus, L.
.. lanceolatus, Pursh.
.. .. alnifolius, L'Her.
FRANGULA
.. .. Caroliniana, Gray.
(*Rhamnus*——, Walt.§
CEANOTHUS
.. .. .. Americanus, L.
.. .. ovalis, Bigel.
CELASTRACEÆ.
CELASTRUS
.. .. .. scandens, L.
EUONYMUS
.. .. .. atropurpureus, Jacq.
.. .. .. Americanus, L.
.. .. .. β. abovatus, (Nutt.)
PACHYSTIMA
.. Myrsinites, Raf. ?
SAPINDACEÆ.
STAPHYLEA
.. .. .. trifolia, L.
ÆSCULUS
.. .. glabra, Willd.
.. .. flava, Ait.
• .. β.purpurascens,Gray.
.. Pavia, L.
ACER
.. .. Pennsylvanicum, L.
.. .. spicatum, Lam.
.. .. .. saccharinum, Wang.
.. .. β.nigrum,(Mx.)Gray.
.. .. .. dasycarpum, Ehrh.
.. .. .. rubrum, L.
β. tridens, Wood.

NEGUNDO
.. .. .. aceroides, Mœnch.
POLYGALACEÆ.
POLYGALA
.. lutea, L.
.. ramosa, Ell.
.. .. incarnata, L.
.. .. .. sanguinea, L.
.. .. fastigiata, Nutt.
.. .. Nuttallii, Torr. & Gr.
.. Curtissii, Gray.
.. cruciata, L.
.. brevifolia, Nutt.
.. .. .. verticillata, L.
.. .. ambigua, Nutt.
(*verticillata, v.*—, §
.. .. .. Senega, L.
.. β. latifolia, T. & Gr.
.. .. .. polygama, Walt.
.. .. paucifolia, Willd.
LEGUMINOSÆ.
LUPINUS
.. .. .. perennis, L.
CROTALARIA
.. .. sagittalis, L.
GENISTA
* tinctoria, L.
CYTISUS
* .. scoparius, Link.
TRIFOLIUM
*.. .. .. arvense, L.
*.. .. .. pratense, L.
* medium, L.
.. .. .. reflexum, L.
.. stoloniferum, Muhl.
*.. .. .. repens, L.
.. Carolinianum, Michx.
*.. .. agrarium, L.
*.. .. .. procumbens, L.
* β. minus, (Relhan.)
MELILOTUS
* parviflora, Desf.
*.. officinalis, Willd.
*.. .. .. alba, Lam.
(*leucantha*, Koch. *
MEDICAGO
*.. .. .. sativa, L.
*.. .. .. lupulina, L.
* maculata, Willd.
* denticulata, Willd.
* intertexta, L.
PSORALEA
.. Onobrychis, Nutt.
stipulata, Torr. & Gr.
.. .. melilotoides, Michx.
.. floribunda, Nutt.
argophylla, Pursh.
esculenta, Pursh.
DALEA
.. alopecuroides, Willd.
PETALOSTEMON
.. violaceus, Michx.
.. candidus, Michx.
villosus, Nutt.
.. foliosus, Gray.
AMORPHA
.. .. fruticosa, L.
.. canescens, Nutt.
CORONILLA
* varia, L.
ROBINIA
.. .. Pseudacacia, L.
.. .. viscosa, Vent.
.. hispida, L.
WISTARIA
.. .. frutescens, DC.
TEPHROSIA
.. .. Virginiana, Pers.
.. spicata, Torr & Gray.
.. hispidula, Pursh.
ASTRAGALUS
.. caryocarpus, Ker.
.. Mexicanus, A. DC.
.. Plattensis, Nutt.
.. β. Tennesseensis, Gr.
.. .. .. Canadensis, L.
.. Cooperi, Gray.
.. distortus, Torr. & Gr.
(*obcordatus*, §
*.. alpinus, L.
Robbinsii, Gray.
w microlobus, Gray.
w gracilis, Nutt.
OXYTROPIS
*.. campestris, DC.
w Lamberti, Pursh.
GLYCIRRHIZA
lipidota, Nutt.
ÆSCHYNOMENE
.. hispida, Willd.
HEDYSARUM
.. boreale, Nutt.

DESMODIUM
.. .. .. nudiflorum, DC.
.. .. .. acuminatum, DC.
.. .. pauciflorum, DC.
.. .. rotundifolium, DC.
β. glabratum, Gray.
.. ochroleucum, Curtis.
humifusum, Beck.
.. .. .. canescens, DC.
.. .. .. cuspidatum,Torr&Gr
.. lævigatum, DC.
β. monophyllum, Wd.
.. viridiflorum, Beck.
.. .. Dillenii, Darlington.
.. .. .. paniculatum, DC.
.. strictum, DC.
.. .. Canadense, DC.
.. Illinoiense, Gray.
.. sessilifolium, T. & Gr.
.. .. rigidum, DC.
.. .. ciliare, DC.
.. .. Marilandicum, Boott.
.. lineatum, DC.
LESPEDEZA
.. .. procumbens, Michx.
(*repens*, ‖ in part.
.. .. .. repens, Torr. & Gray.
(*procumbens, v.*——,§
violacea, Pers. :
.. .. α. divergens, (Pursh.)
.. .. .. β. sessiliflora, (Mx.)
.. .. .. γ.angustifolia,T.&Gr.
(*v.reticulata*,(Pers. ‖§
.. Stuvei, Nutt.
.. .. .. hirta, Ell.
.. .. .. capitata, Michx.
.. β. angustifolia, (Ell.)
STYLOSANTHES
.. .. elatior, Swartz.
VICIA
*.. .. sativa, L.
* β. angustifolia, (Sm.)
*.. .. tetrasperma, L.
*.. .. hirsuta, Koch.
*.. Cracca, L.
.. .. .. Caroliniana, Walt.
.. .. Americana, Muhl.
LATHYRUS
*.. .. maritimus, Bigel.
.. .. .. venosus, Muhl.
.. .. ochroleucus, Hook.
*.. .. palustris, L.
.. .. .. β. myrtifolius,(Muhl.
* pratensis, L.
APIOS
.. .. .. tuberosa, Mœnch.
PHASEOLUS
.. .. perennis, Walt.
.. .. .. diversifolius, Pers.
.. .. helvolus, L.
.. pauciflorus, Benth.
CENTROSEMA
.. Virginiana, Benth.
CLITORIA
.. .. Mariana, L.
AMPHICARPÆA
.. .. .. monoica, Nutt.
GALACTIA
.. glabella, Michx.
.. .. mollis, Michx.
RHYNCHOSIA
tomentosa,Torr&Gr. :
.. α.monophylla,T.&Gr.
(*simplicifolia*,(Ell.) §
.. β. volubilis, T. & Gr.
.. γ. erecta,Torr.&Gray.
BAPTISIA
.. .. .. tinctoria, R. Br.
.. villosa, Ell.
.. .. australis, R. Br.
.. leucantha, Torr.&Gr.
.. alba, R. Br.
.. leucophæa, Nutt.
CLADRASTIS
tinctoria, Raf.
CERCIS
.. .. Canadensis, L.
CASSIA
.. .. Marilandica, L.
.. occidentalis, L.
.. .. obtusifolia, L.
.. .. Chamæcrista, L.
.. .. nictitans, L.
GYMNOCLADUS
.. .. Canadensis, Lam.
GLEDITSCHIA
.. .. triacanthos, L.
.. monosperma, Walt.
DESMANTHUS
.. brachylobus, Benth.
SCHRANKIA
.. .. uncinata, Willd.
.. angustata, Torr.&Gr.

ROSACEÆ.
PRUNUS
.. .. .. Americana, Marhall.
.. maritima, Wang.
.. β. pygmæa, (Willd.)
.. .. Chicasa, Michx.
* spinosa, L.
* β. insititia, (L.)
.. .. .. pumila, L.
.. .. .. Pennsylvanica, L.
* .. Cerasus, L.
.. .. .. Virginiana, L.
.. .. .. serotina,Ehrh.
SPIRÆA
.. .. .. opulifolia, L.
.. corymbosa, Raf.
*.. .. .. salicifolia, L.
.. .. tomentosa, L.
.. lobata, Murr.
* .. .. Aruncus, L.
GILLENIA
.. trifoliata, Mœnch.
.. .. stipulacea, Nutt.
POTERIUM
.. .. Canadense, Gray.
(*Sanguisorba*—, L.†‖
* Sanguisorba, L.
ALCHEMILLA
* .. arvensis, L.
AGRIMONIA
*.. .. .. Eupatoria, L.
.. .. .. parviflora, Ait.
DRYAS
*.. integrifolia, Vahl.
GEUM
.. .. .. album, Gmelin.
.. β. luteum, Wood.
.. .. Virginianum, L.
*.. .. macrophyllum, Willd.
*.. .. strictum, Ait.
.. .. vernum, Torr.&Gray.
*.. rivale, L.
.. .. triflorum, Pursh.
radiatum,Michx.:
α. Peckii, (Ph.)Gray.
WALDSTEINIA
.. .. fragarioides, Tratt.
SIBBALDIA
* procumbens, L.
(*Potentilla*—, Clair. §
POTENTILLA
*.. .. .. Norvegica, L.
.. Millegrana, Engelm.
paradoxa, Nutt.
* frigida, Vill.
(? *minima*, Haller. §
.. .. .. Canadensis, L.
.. β.simplex,(Mx.)T&G
*.. argentea, L.
.. Pennsylvanica, L.
* recta, Willd.
.. .. arguta, Pursh.
*.. .. Anserina, L.
*.. .. fruticosa, L.
*.. tridentata, Ait.
*.. .. palustris, Scop.
(*Comarum*——, L. *
(*Comarum*, Nestl. *
FRAGARIA
.. .. .. Virginiana, Ehrh.
.. β.Illinoensis,(Prince)
*.. .. .. vesca, L.
Indica, L.
DALIBARDA
.. repens, L.
RUBUS
.. .. odoratus, L.
.. Nutkanus, Moçino.
*.. Chamæmorus, L.
*.. arcticus, L.
.. .. triflorus, Richards.
.. .. strigosus, Michx.
neglectus, Peck.
.. .. .. occidentalis, L.
.. .. .. villosus, Ait.
β. frondosus.
.. γ. humifusus.
.. .. .. Canadensis, L.
.. .. .. hispidus, L.
β. setosus, (Bigel.)
.. cuneifolius, Pursh.
.. trivialis, Michx.
ROSA
.. setigera, Michx.
.. .. .. Carolina, L.
.. .. .. lucida, Ehrh.
nitida, Willd.
.. .. blanda, Ait.
* canina, L.
*.. .. .. rubiginosa, L.
* .. micrantha, Smith.
CRATÆGUS
* Pyracantha, Pers.
.. spathulata, Michx.
.. cordata, Ait.

*.. Oxyacantha, L.
.. apiifolia, Michx.
.. .. .. coccinea, L.
.. .. .. tomentosa, L.
.. .. .. β. pyrifolia, (Ait.)
.. .. .. γ. punctata, (Jacq.)
δ. plicata, Wood.
ε. flabellata, Wood.
.. ς. mollis, T. & Gr.
.. .. .. Crus-galli, L.
.. flava, Ait.
.. β. pubescens, Gray.
.. parvifolia, Ait.
PYRUS
.. .. .. coronaria, L.
.. angustifolia, Ait.
arbutifolia, L. :
.. .. .. α. erythrocarpa.
.. β. melanocarpa.
.. .. Americana, DC.
sambucifolia, Cham. & Schlecht.
AMELANCHIER
Canadensis, T.&Gr. :
.. .. .. α. Botryapium,T.&Gr
.. .. .. β. oblongifolia,T.&Gr
.. γ. rotundifolia,T.&Gr
δ. alnifolia, T. & Gr.
.. ε. oligocarpa, T.&Gr.
CALYCANTHACEÆ
CALYCANTHUS
.. lævigatus, Willd.
SAXIFRAGACEÆ.
RIBES
.. .. .. Cynosbati, L.
.. oxyacanthoides, L.
.. .. hirtellum, Michx.
.. .. .. rotundifolium, Mx.
.. lacustre, Poir.
.. .. prostratum, L'Her.
.. .. floridum, L.
*.. .. rubrum, L.
ITEA
.. Virginica, L.
HYDRANGEA
.. .. arborescens, L.
PHILADELPHUS
.. inodorus, L.
.. β. grandiflorus,(Wld.
PARNASSIA
.. parviflora, DC.
*.. .. palustris, L.
.. .. .. Caroliniana, Michx.
.. asarifolia, Vent.
ASTILBE
.. decandra, Don.
SAXIFRAGA
* oppositifolia, L.
* rivularis, L.
* aizoides, L.
*.. tricuspidata, Retz.
*.. Aizoon, Jacq.
.. .. Virginiensis, Michx.
.. Pennsylvanica, L.
.. Forbesii, Vasey.
.. erosa, Pursh.
.. leucanthemifolia, Mx.
* stellaris, L., α. comosa, Willd.
BOYKINIA
.. aconitifolia, Nutt.
SULLIVANTIA
Ohionis, Torr.&Gray.
HEUCHERA
.. villosa, Michx.
.. Rugellii, Shuttlew.
.. .. .. Americana, L.
.. .. hispida, Pursh.
.. pubescens, Pursh.
MITELLA
.. .. .. diphylla, L.
.. .. nuda, L.
TIARELLA
.. .. cordifolia, L.
CHRYSOSPLENIUM
.. .. Americanum, Schw.
CRASSULACEÆ.
PENTHORUM
.. .. .. sedoides, L.
TILLÆA
simplex. Nutt.
SEDUM
*.. acre, L.
w stenopetalum, Pursh.
.. .. pulchellum, Michx.
.. Nevii, Gray.
.. .. ternatum, Michx.
.. telephioides, Michx.
*.. Telephium, L.
*.. Rhodiola, DC.
HAMAMELACEÆ.
HAMAMELIS
.. .. .. Virginica, L.
FOTHERGILLA.
.. alnifolia, L. f.

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MISSOURI BOTANICAL GARDEN

E.C.I.V. LIQUIDAMBAR
.. .. Styraciflua, L.
HALORAGEÆ.
MYRIOPHYLLUM
* .. .. .. spicatum, L.
* .. .. .. verticillatum, L.
.. .. .. heterophyllum, Mx.
.. .. scabratum, Michx.
ambiguum, Nutt.:
a. natans.
β. capillaceum.
γ. limosum.
.. tenellum, Bigel.
PROSERPINACA
.. .. .. palustris, L.
.. pectinacea, Lam.
HIPPURIS
* .. .. vulgaris, L.
ONAGRACEÆ.
CIRCÆA
* .. .. .. Lutetiana, L.
* .. .. alpina, L.
GAURA
.. .. .. biennis, L.
.. .. filipes, Spach.
EPILOBIUM
* .. .. .. angustifolium, L.
.. *β.* canescens, Wood.
* hirsutum, L.
* .. alpinum, L.
* *β.* majus, Wahl.
(*v. nutans*, Wood. §
(*alsinifolium*, Vill. *
palustre, L.:
* .. .. .. *a.* lineare, (Muhl.) Gr.
(*v. albiflorum*, Wood. §
β. oliganthum, (Mx.)
.. paniculatum, Nutt.
.. .. molle, Torr.
.. .. .. coloratum, Muhl.
* .. tetragonum, L.
ŒNOTHERA
biennis, L.:
.. .. .. *a.* muricata, (Pursh.)
β. grandiflora, (Ait.)
γ. parviflora, (L.)
δ. cruciata.
ε. Oakesiana, (Robb.)
ς. canescens.
.. rhombipetala, Nutt.
.. .. sinuata, L.
β. minima, Wood.
.. glauca, Michx.
W Missouriensis, Sims.
W speciosa, Nutt.
.. .. fruticosa, L.
.. riparia, Nutt.
.. .. linearis, Michx.
.. chrysantha, Michx.
.. .. .. pumila, L.
W linifolia, Nutt.
serrulata, Nutt.
JUSSIÆA
.. .. decurrens, DC.
.. repens, L.
LUDWIGIA
.. .. alternifolia, L.
.. hirtella, Raf.
.. .. sphærocarpa, Ell.
.. polycarpa, Short & Peter.
.. linearis, Walt.
.. cylindrica, Ell.
* .. .. .. palustris, Ell.
(*Isnardia*——, L. *
.. arcuata, Walt.
MELASTOMACEÆ.
RHEXIA
.. .. Virginica, L.
.. Mariana, L.
.. ciliosa, Michx.
LYTHRACEÆ.
AMMANNIA
.. .. humilis, Michx.
.. latifolia, L.
.. Nuttallii, Gray.
(*Hypobrichia*–, Curt. ‖
(*Didiplis diandra*, §
LYTHRUM
* Hyssopifolia, L.
.. .. .. alatum, Pursh.
.. lineare, L.
* .. Salicaria, L.
NESÆA
.. .. .. verticillata, H. B. K.
CUPHEA
.. .. viscosissima, Jacq.
LOASACEÆ.
MENTZELIA
.. oligosperma, Nutt.
CACTACEÆ.
OPUNTIA
.. .. vulgaris, Mill.
.. Rafinesquii, Engelm.
Missouriensis, DC.

PASSIFLORACEÆ.
PASSIFLORA
.. .. lutea, L.
.. .. incarnata, L.
CUCURBITACEÆ.
SICYOS
.. .. .. angulatus, L.
ECHINOCYSTIS
.. .. lobata, Torr. & Gray.
MELOTHRIA
.. pendula, L.
UMBELLIFERÆ.
HYDROCOTYLE
.. repanda, Pers.
.. ranunculoides, L.
.. .. .. Americana, L.
.. umbellata, L.
β.? ambigua, Gray.
.. interrupta, Muhl.
CRANTZIA
.. lineata, Nutt.
SANICULA
.. .. .. Canadensis, L.
.. .. .. Marilandica, L.
ERYNGIUM
.. .. yuccæfolium, Michx.
.. Virginianum, Lam.
DAUCUS
* .. .. .. Carota, L.
POLYTÆNIA
.. Nuttallii, DC.
HERACLEUM
.. .. .. lanatum, Michx.
PASTINACA
* .. .. .. sativa, L.
(*Peucedanum*-, Bnth. §
PEUCEDANUM
W fœniculaceum, Nutt.
ARCHEMORA
.. .. .. rigida, DC.
(*Peucedanum*-, Wood §
.. *β.* ambigua.
TIEDEMANNIA
.. teretifolia, DC.
(*Peucedanum*-, Wood §
ANGELICA
.. Curtisii, Buckley.
ARCHANGELICA
.. .. hirsuta, Torr. & Gray.
.. .. atropurpurea, Hoffm.
Gmelini, DC.
(*peregrina*, Nutt. † §
CONIOSELINUM
.. .. Canadense, Torr. & Gr.
(*Selinum*—, B. & H. §
FŒNICULUM
* .. vulgare, Gærtn.
ÆTHUSA
* .. Cynapium, L.
LIGUSTICUM
* .. Scoticum, L.
.. actæifolium, Michx.
THASPIUM
.. .. .. barbinode, Nutt.
pinnatifidum, Gray.
(*Walteri*—, Shutt. §
.. .. .. aureum, Nutt.
(*Carum*——, Wood. §
.. .. *β.* apterum, Gray.
.. .. trifoliatum, Gray.
(*Carum cordatum*, §
.. .. *β.* atropurpureum, Torr. & Gray.
.. .. *γ.* apterum, Gray.
ZIZIA
.. .. .. integerrima, DC.
(*Pimpinella integrifolia*, (B. & H.) §
BUPLEURUM
* .. .. rotundifolium, L.
DISCOPLEURA
.. capillacea, DC.
.. *β.* costata, DC.
.. Nuttallii, DC.
CARUM
* .. Carui, L.
CICUTA
.. .. .. maculata, L.
.. .. bulbifera, L.
SIUM
.. .. .. lineare, Michx.
(*Apium*——, Wood. §
* .. latifolium, L.
Carsonii, Durand.
(*Apium*——, Wood. §
* .. angustifolium, L.
ÆGOPODIUM
* podagraria, L.
CRYPTOTÆNIA
.. .. .. Canadensis, DC.
CHÆROPHYLLUM
.. .. procumbens, Lam.
* sativum, Lam.
(*Anthriscus Cerefolium*, Hoffm. *

OSMORRHIZA
.. .. .. longistylis, DC.
.. .. .. brevistylis, DC.
CONIUM
* .. .. maculatum, L.
EULOPHUS
.. Americanus, Nutt.
ERIGENIA
.. .. bulbosa, Nutt.
ARALIACEÆ.
ARALIA
.. .. spinosa, L.
.. .. .. racemosa, L.
.. .. hispida, Michx.
.. .. .. nudicaulis, L.
.. .. .. quinquefolia, Gray.
(*Panax*——, L. ‖
(*Ginseng*——, Wood. §
.. .. trifolia, Gray.
(*Panax*——, L. ‖
(*Ginseng*——, Wood. §
CORNACEÆ.
CORNUS
* .. suecica, L.
.. .. Canadensis, L.
.. .. .. florida, L.
.. .. circinata, L'Her.
.. .. .. sericea, L.
.. .. stolonifera, Michx.
.. asperifolia, Michx.
.. stricta, Lam.
.. .. .. paniculata, L'Her.
.. .. .. alternifolia, L.
NYSSA
.. .. multiflora, Wang.
.. uniflora, Walt.
CAPRIFOLIACEÆ.
LINNÆA
* .. borealis, Gronov.
SYMPHORICARPUS
.. .. occidentalis, R. Br.
.. .. racemosus, Michx.
β. pauciflorus, Robb.
.. .. vulgaris, Michx.
LONICERA
.. sempervirens, Ait.
.. grata, Ait.
.. flava, Sims.
.. .. .. parviflora, Lam.
.. *β.* Douglasii, (DC.)
.. hirsuta, Eaton,
.. involucrata, Banks.
.. ciliata, Muhl.
* .. cærulea, L.
.. oblongifolia, Muhl.
DIERVILLA
.. .. .. trifida, Mœnch.
TRIOSTEUM
.. .. .. perfoliatum, L.
.. .. angustifolium, L.
SAMBUCUS
.. .. .. Canadensis, L.
.. .. .. pubens, Michx.
VIBURNUM
.. .. .. Lentago, L.
.. .. prunifolium, L.
nudum, L.:
.. *a.* Claytoni.
(*v. angustifolium*, §
.. *β.* cassinoides.
.. obovatum, Walt.
.. .. .. dentatum, L.
molle, Michx.
.. .. .. pubescens, Pursh.
.. .. .. acerifolium, L.
.. pauciflorum, Pylaie.
* .. .. Opulus, L.
.. .. lantanoides, Michx.
RUBIACEÆ.
GALIUM
* .. anglicum, Huds.
* .. .. .. Aparine, L.
* Mollugo, L.
.. .. asprellum, Michx.
.. .. concinnum, Torr. & Gr
* .. .. .. trifidum, L.
β. pusillum.
.. *γ.* tinctorium.
δ. latifolium.
* .. .. .. triflorum, Michx.
.. .. .. pilosum, Ait.
.. *β.* puncticulosum, (Mx
.. .. .. circæzans, Michx.
β. montanum.
.. lanceolatum, Torr.
(*circæzans, v.*-, Wood. §
.. latifolium, Michx.
* .. .. boreale, L.
* verum, L.
SPERMACOCE
.. glabra, Michx.
DIODIA
.. Virginica, L.
.. .. teres, Walt.

CEPHALANTHUS
.. .. .. occidentalis, L.
MITCHELLA
.. .. .. repens, L.
OLDENLANDIA
.. glomerata, Michx.
HOUSTONIA
(*OLDENLANDIA*† ‖)
.. .. .. purpurea, L.
.. .. *β.* longifolia, (Willd.)
.. *γ.* tenuifolia, (Nutt.)
.. *δ.* ciliolata, (Torr.)
.. angustifolia, Michx.
.. minima, Beck.
.. .. .. cærulea, L.
VALERIANACEÆ.
VALERIANA
.. .. pauciflora, Michx.
.. sylvatica, Richards.
.. edulis, Nutt.
FEDIA
(*VALERIANELLA* §)
* .. olitoria, Vahl.
Fagopyrum, T. & Gr.
.. .. .. radiata, Michx.
umbilicata, Sullivant
(*radiata, v.*—, Porter.
patellaria, Sullivant.
(*radiata, v.*—, Porter.
DIPSACEÆ.
DIPSACUS
* .. .. .. sylvestris, Mill.
* Fullonum, L.
COMPOSITÆ.
VERNONIA
.. .. Noveboracensis, Willd
.. .. fasciculata, Michx.
ELEPHANTOPUS
.. .. Carolinianus, Willd.
.. tomentosus, L.
SCLEROLEPIS
.. verticillata, Cass.
LIATRIS
.. elegans, Willd.
.. .. squarrosa, Willd.
.. .. cylindracea, Michx.
.. .. .. scariosa, Willd.
.. pilosa, Willd.
.. .. .. spicata, Willd.
.. graminifolia, Willd.
.. *β.* dubia, Gray.
.. pycnostachya, Michx
.. odoratissima, Willd.
.. paniculata, Willd.
KUHNIA
.. .. eupatorioides, L.
EUPATORIUM
.. .. .. purpureum, L.
.. fistulosum, Barratt. §
(*purpureum*, ‡ in part.
.. maculatum, L. §
(*purpureum*, ‡ in part.
.. fœniculaceum, Willd.
.. hyssopifolium, L.
.. leucolepis, Torr. & Gr.
.. parviflorum, Ell.
.. .. altissimum, L.
.. album, L.
.. teucrifolium, Willd.
.. rotundifolium, L.
.. pubescens, Muhl.
.. .. sessilifolium, L.
resinosum, Torr.
.. .. .. perfoliatum, L.
.. .. serotinum, Michx.
.. .. .. ageratoides, L.
.. .. aromaticum, L.
MIKANIA
.. .. scandens, L.
CONOCLINIUM
.. .. cœlestinum, DC.
NARDOSMIA
.. palmata, Hook.
TUSSILAGO
* .. Farfara, L.
PETASITES
* vulgaris, Desf.
ADENOCAULON
bicolor, Hook.
SERICOCARPUS
.. solidagineus, Nees.
.. conyzoides, Nees.
.. tortifolius, Nees.
ASTER
.. .. .. corymbosus, Ait.
.. .. .. macrophyllus, L.
.. Radula, Ait.
.. surculosus, Michx.
.. *β.* gracilis, (Nutt.)
.. spectabilis, Ait.
Herveyi, Gray.
.. sericeus, Vent.
.. concolor, L.
.. .. .. patens, Ait.
.. *β.* phlogifolius, (Muhl

lævis, L.:
.. *a.* lævigatus, (Willd.)
.. .. .. *β.* cyaneus, (Hoffm.)
.. turbinellus, Lindl.
.. .. azureus, Lindl.
.. Shortii, Boott.
.. .. .. undulatus, L.
.. *β.* asperulus, (T. & G.)
.. .. .. cordifolius, L.
.. .. .. sagittifolius, Willd.
.. *β.* Drummondii, (Lindl
.. .. ericoides, L.
.. .. *β.* villosus, (Michx.)
.. .. .. multiflorus, Ait.
.. .. dumosus, L.
β. coridifolius, Wood.
.. .. .. Tradescanti, L.
.. *β.* fragilis, (Willd.)
.. .. .. miser, L., Ait.
.. .. .. simplex, Willd.
β. divergens, (Ait.)
.. .. .. tenuifolius, L.
β. bellidiflorus, (Willd
.. *γ.* distichus, Wood.
.. subasper, Lindl.
.. .. .. carneus, Nees.
.. mutabilis, Ait.
.. æstivus, Ait.
β. lætiflorus.
.. Novi-Belgii, L.
.. .. longifolius, Lam.
β. præaltus, (Poir.)
.. .. .. puniceus, L.
.. *β.* vimineus, (Willd.)
.. *γ.* glaber, Wood.
δ. firmus, Wood.
.. prenanthoides, Muhl.
.. grandiflorus, L.
.. .. oblongifolius, Nutt.
.. amethystinus, Nutt.
.. .. .. Novæ-Angliæ, L.
.. anomalus, Engelm.
.. graminifolius, Pursh.
.. .. acuminatus, Michx.
.. nemoralis, Ait.
.. .. ptarmicoides, T. & Gr.
.. flexuosus, Nutt.
.. linifolius, L.
W angustus, Torr. & Gr.
ERIGERON
* .. .. .. Canadense, L.
.. divaricatum, Michx.
* .. acre, L.
.. .. .. bellidifolium, Muhl.
.. .. .. Philadelphicum, L.
.. glabellum, Nutt.
* .. .. .. annuum, Pers.
(*Stenactis*——, Cass. *
.. .. .. strigosum, Muhl.
β. discoideum, Robb.
.. vernum, Torr. & Gray.
DIPLOPAPPUS
.. .. .. linariifolius, Hook.
.. .. .. umbellatus, T. & Gr.
.. amygdalinus, T. & Gr.
(*umbellatus, v.*——, §
.. cornifolius, Darl.
BOLTONIA
.. .. asteroides, L'Her.
.. .. .. glastifolia, L'Her.
.. decurrens, Wood.
.. diffusa, L.'Her.
W latisquama, Gray.
BELLIS
integrifolia, Michx.
AMPHIACHYRIS
W dracunculoides, DC.
BRACHYCHÆTA
cordata, Torr. & Gray.
(*Solidago*—, Short. ‖
SOLIDAGO
.. .. squarrosa, Muhl.
.. .. bicolor, L.
.. *β.* concolor, Gray.
.. .. .. latifolia, L.
.. *β.* ciliata, (DC.)
.. Curtisii, Torr. & Gray
(*ambigua*, Ait., *v.*—, §
.. .. .. cæsia, L.
.. virgata, Michx.
.. .. puberula, Nutt.
.. .. stricta, Ait.
.. .. speciosa, Nutt.
.. *β.* angustata, Gray.
.. petiolaris, Ait.
.. *β.* squarrulosa, T. & Gr
* .. Virga-aurea, L.
.. *β.* alpina, Bigel.
.. .. .. *γ.* humilis, (Ph.) Gr.
.. thyrsoidea, E. Meyer.
.. .. .. rigida, L.
.. Ohioensis, Riddell.
.. .. Riddellii, Frank.
.. Houghtonii, T. & Gr.

.. .. sempervirens, L.
elliptica, Ait.
.. .. neglecta, Torr. & Gray.
.. .. patula, Muhl.
.. .. .. arguta, Ait.
.. .. .. *β.* juncea, (Ait.)
.. *γ.* scabrella, Gray.
.. Boottii, Hook.
.. .. Muhlenbergii, T. & Gr.
linoides, Solander.
.. .. altissima, L.
.. .. ulmifolia, Muhl.
.. Drummondii, T. & Gr.
.. pilosa, Walt.
.. odora, Ait.
.. tortifolia, Ell.
.. .. .. nemoralis, Ait.
.. radula, Nutt.
Shortii, Torr. & Gray.
.. Missouriensis, Nutt.
rupestris, Raf.
.. .. .. Canadensis, L.
β. procera, (Ell.)
γ. scabra.
.. .. .. serotina, Ait.
.. .. .. gigantea, Ait.
.. .. .. lanceolata, L.
.. .. tenuifolia, Pursh.
BIGELOVIA
.. nudata, DC.
CHRYSOPSIS
.. graminifolia, Nutt.
falcata, Ell.
.. gossypina, Nutt.
.. Mariana, Nutt.
.. villosa, Nutt.
GRINDELIA
W squarrosa, Dunal.
W inuloides, Willd.
INULA
* .. .. .. Helenium, L.
PLUCHEA
.. camphorata, DC.
.. .. fœtida, DC.
.. bifrons, DC.
BACCHARIS
.. halimifolia, L.
.. glomeruliflora, Pers.
POLYMNIA
.. .. .. Canadensis, L.
.. *β.* discoidea, Gray.
.. .. Uvedalia, L.
CHRYSOGONUM
.. .. Virginianum, L.
SILPHIUM
.. laciniatum, L.
.. .. .. terebinthinaceum, L.
β. pinnatifidum, (Ell.)
.. trifoliatum, L.
.. Asteriscus, L.
.. Radula, Nutt.
.. integrifolium, Michx.
β. læve, Gray.
.. *γ.* ternatum, Wood.
.. .. perfoliatum, L.
PARTHENIUM
.. .. integrifolium, L.
IVA
.. frutescens, L.
.. ciliata, Willd.
xanthiifolia, Nutt.
AMBROSIA
.. bidentata, Michx.
.. .. .. trifida, L.
.. *β.* integrifolia, (Muhl.
.. .. .. artemisiæfolia, L.
.. psilostachya, DC.
XANTHIUM
* .. .. .. strumarium, L.
β. Canadense, (Mill.)
.. *γ.* echinatum, (Murr.)
* .. .. spinosum, L.
TETRAGONOTHECA
.. helianthoides, L.
ECLIPTA
.. .. procumbens, Michx.
(*erecta*, L. ‖; *alba*, §
.. *β.* brachypoda, (Mx.)
BORRICHIA
.. frutescens, DC.
HELIOPSIS
lævis, Pers.
.. .. .. *β.* scabra.
γ. gracilis.
ECHINACEA
.. .. purpurea, Mœnch.
.. angustifolia, DC.
RUDBECKIA
.. .. .. laciniata, L.
.. subtomentosa, Pursh.
.. .. triloba, L.
.. speciosa, Wenderoth.
.. .. fulgida, Ait.
.. .. .. hirta, L.

E.C.I.V. LEPACHYS
.. .. pinnata, Torr. & Gr.
HELIANTHUS
.. .. annuus, L.
w lenticularis, Dougl.
.. .. angustifolius, L.
w orgyalis, DC.
.. .. atrorubens, L.
.. rigidus, Desf.
.. lætiflorus, Pers.
.. occidentalis, Ridd.
cinereus, Torr. & Gr.:
a. Sullivantii, T. & Gr.
.. mollis, Lam.
.. .. microcephalus, T. & Gr
.. lævigatus, Torr. & Gr.
(*longifolius*, §
.. .. .. giganteus, L.
β. ambiguus, Gray.
.. grosse-serratus, Mart.
.. .. tomentosus, Michx.
.. .. .. strumosus, L.
β. mollis, Gray.
.. .. .. divaricatus, L.
.. β. scaberrimus, Wood.
.. hirsutus, Raf.
β. pubescens, (Hook.)
.. tracheliifolius, Willd.
.. .. .. decapetalus, L.
.. β. frondosus, Gray.
.. .. .. doronicoides, Lam.
.. tuberosus, L.
ACTINOMERIS
.. .. .. squarrosa, Nutt.
.. helianthoides, Nutt.
COREOPSIS
rosea, Nutt.
.. .. auriculata, L.
.. .. .. lanceolata, L.
w grandiflora, Nutt.
tinctoria, Nutt.
.. senifolia, Michx.
.. .. β. stellata, (Nutt.)
.. delphinifolia, Lam.
.. verticillata, L.
.. palmata, Nutt.
.. .. .. tripteris, L.
.. aristosa, Michx.
.. β. mutica, Gray.
w γ. involucrata, (Nutt)
.. .. .. trichosperma, Michx.
.. .. .. discoidea, Torr. & Gr.
bidentoides, Nutt.
BIDENS
.. .. .. frondosa, L.
* .. .. .. connata, Muhl.
.. β. petiolata, (Nutt.)
.. γ. comosa, Gray.
* .. .. .. cernua, L.
.. .. .. chrysanthemoides, Michx.
.. .. Beckii, Torr.
.. .. bipinnata, L.
VERBESINA
.. .. Siegesbeckia, Michx.
.. Virginica, L.
DYSODIA
.. chrysanthemoides, Lag
HYMENOPAPPUS
.. scabiosæus, L'Her.
w tenuifolius, Pursh.
ACTINELLA
scaposa, Nutt.:
.. *a.* glabra, Gray.
HELENIUM
.. .. .. autumnale, L.
LEPTOPODA
.. brachypoda, Torr & Gr
(*Helenium*—, Wood. §
BALDWINIA
.. uniflora, Nutt.
MARSHALLIA
.. latifolia, Pursh.
GALINSOGA
* parviflora, Cav.
MARUTA
* .. .. .. Cotula, DC.
(*Anthemis*——, L. *§
ANTHEMIS
* arvensis, L.
* nobilis, L.
ACHILLEA
* .. .. .. Millefolium, L.
* Ptarmica, L.
LEUCANTHEMUM
* .. .. .. vulgare, Lam.
(*Chrysanthemum Leucanthemum*, L. *†
β. tubuliflorum, Ten.
* .. Parthenium, Godron.
(*Matricaria*—, L. *†
(*Pyrethrum*—, Sm. *
MATRICARIA
* inodora, L.
* .. discoidea, DC.

TANACETUM
* .. .. vulgare, L.
.. β. crispum, Gray.
.. Huronense, Nutt.
ARTEMISIA
.. dracunculoides, Ph.
* borealis, Pallas.
.. .. Canadensis, Michx.
.. .. .. caudata, Michx.
.. Ludoviciana, Nutt.
.. β. gnaphalodes, Gray.
* .. .. vulgaris, L.
.. .. biennis, Willd.
* .. Absinthium, L.
frigida, Willd.
GNAPHALIUM
.. decurrens, Ives.
.. .. .. polycephalum, Michx
* .. .. uliginosum, L.
.. .. purpureum, L.
* supinum, Villars.
ANTENNARIA
* .. .. .. margaritacea, R. Br.
.. .. .. plantaginifolia, Hook
.. β. monocephala, Gray
* .. .. dioica, Gærtn.?
FILAGO
* .. Germanica, L.
ERECHTHITES
.. .. .. hieracifolia, Raf.
CACALIA
.. suaveolens, L.
.. .. reniformis, Muhl.
.. .. atriplicifolia, L.
.. .. tuberosa, Nutt.
SENECIO
* .. .. vulgaris, L.
.. lobatus, Pers.
* palustris, Hook.
.. .. .. aureus, L.
.. β. obovatus, (Muhl.)
.. .. .. γ. Balsamitæ, (Willd)
δ. lanceolatus. Oakes.
.. ε. gracilis, (Pursh.)
ς. discoideus, (Pursh.)
.. Elliottii, Torr. & Gr.
(*obovatus*, Ell. §
.. tomentosus, Michx.
Pseudo-Arnica, Less.
ARNICA
mollis, Hook.
.. nudicaulis, Ell.
CENTAUREA
* .. .. Cyanus, L.
* .. nigra, L.
* .. Calcitrapa, L.
.. Americana, Nutt.
CNICUS
* .. benedictus, L.
CIRSIUM
* .. .. .. lanceolatum, Scop.
(*Carduus* ——, L.*
.. .. Pitcheri, Torr. & Gray.
undulatum, Spreng.
.. .. .. discolor, Spreng.
.. .. .. altissimum, Spreng.
.. Virginianum, Michx.
.. β. filipendulum, (Eng.
.. .. .. muticum, Michx.
.. .. pumilum, Spreng.
.. horridulum, Michx.
* .. .. arvense, Scop.
(*Carduus*—, Curtis.*
CARDUUS
* .. nutans, L.
ONOPORDON
* .. .. acanthium, L.
LAPPA
officinalis, All.:
(*Arctium Lappa*, L.*
* .. .. .. *a.* major, (Gærtn.)
* β. tomentosa, (Lam.)
* γ. minor, (DC.)
LAMPSANA
* .. communis, L.
CICHORIUM
* .. .. .. Intybus, L.
APOGON
w humilis, Ell.
KRIGIA
.. .. Virginica, Willd.
β. dichotoma, (Nutt.)
CYNTHIA
.. .. .. Virginica, Don.
.. Dandelion, DC.
LEONTODON
* .. autumnale, L.
TRAGOPOGON
* porrifolius, L.
TROXIMON
.. cuspidatum, Pursh.
HIERACIUM
.. .. Canadense, Michx.
* .. murorum, L.

.. .. .. scabrum, Michx.
.. longipilum, Torr.
.. .. Gronovii, L.
.. .. venosum, L.
.. β. subcaulescens, Gr.
.. .. paniculatum, L.
NABALUS
.. .. .. albus, Hook.
.. β. Serpentaria, (Hook.
.. .. .. altissimus, Hook.
.. Fraseri, DC.
.. β. integrifolius, Gray.
nanus, DC.
Boottii, DC.
.. virgatus, DC.
.. .. racemosus, Hook.
.. asper, Torr. & Gray.
.. crepidineus, DC.
LYGODESMIA
juncea, Don.
CHONDRILLA
* .. juncea, L.
CREPIS
* virens, L., *a.* diffusa.
.. runcinata, Torr. & Gr.
PYRRHOPAPPUS
.. Carolinianus, DC.
w grandiflorus, Nutt.
TARAXACUM
* .. .. .. Dens-leonis, Desf.
LACTUCA
.. .. .. Canadensis, L.
(*elongata*, Muhl. † ‖
.. .. .. β. integrifolia, (Bigel.
.. .. .. γ. sanguinea, (Bigel.
* Scariola, L.
MULGEDIUM
pulchellum, Nutt.
.. .. acuminatum, DC.
(*Floridanum, v.*——, §
.. .. .. Floridanum, DC.
.. .. .. leucophæum, DC.
SONCHUS
* .. .. .. oleraceus, L.
* .. .. .. asper, Vill.
* .. .. arvensis, L.
LOBELIACEÆ.
LOBELIA
.. .. .. cardinalis, L.
β. integerrima, Wood.
γ. candida, Wood.
.. .. .. syphilitica, L.
.. .. puberula, Michx.
.. leptostachys, A. DC.
.. glandulosa, Walt.
.. amœna, Michx.
.. .. .. inflata, L.
.. .. .. spicata, Lam.
.. Nuttallii, Rœm. & S.
.. .. Kalmii, L.
Canbyi, Gray.
.. paludosa, Nutt.
* .. Dortmanna, L.
CAMPANULACEÆ.
CAMPANULA
* .. rotundifolia, L.
* .. .. β. linifolia, (Lam.)
.. .. .. aparinoides, Pursh.
.. divaricata, Michx.
.. .. .. Americana, L.
* glomerata, L.
* rapunculoides, L.
* medium, L.
SPECULARIA
.. .. .. perfoliata, A. DC.
w leptocarpa, Nutt.
ERICACEÆ.
GAYLUSSACEA
.. brachycera, Gray.
.. .. dumosa, Torr. & Gr.
.. β. hirtella.
.. frondosa, Torr. & Gr.
.. .. .. resinosa, Torr. & Gr.
VACCINIUM
* .. Oxycoccus, L.
(*Oxycoccus palustris*, Pers. *§
* .. .. .. macrocarpon, Ait.
(*Oxycoccus*—, Pers.*§
.. erythrocarpon, Mx.
(*Oxycoccus*——, Ell. §
* .. Vitis-Idæa, L.
.. .. stamineum, L.
.. .. arboreum, Marshall.
* .. uliginosum, L.
.. cæspitosum, Michx.
ovalifolium, Smith.
myrtilloides, Hook.
.. .. Pennsylvanicum, Lam
β. angustifolium, (Ait.
(*v. alpinum*, Wood. §
γ. nigrum, Wood.
.. tenellum, Ait.
.. Canadense, Kalm.
.. .. .. vacillans, Solander.

corymbosum, L.:
.. .. *a.* glabrum.
.. β. amœnum.
γ. pallidum.
.. δ. atrococcum.
CHIOGENES
.. hispidula, Torr. & Gr.
ARCTOSTAPHYLOS
* .. .. Uva-ursi, Spreng.
(*Arbutus*——, L. *
* alpina, Spreng.
EPIGÆA
.. .. repens, L.
GAULTHERIA
.. .. procumbens, L.
LEUCOTHOE
.. axillaris, Don.
(*Andromeda*—, Lam. §
.. Catesbæi, Gray.
(*Andromeda*—, Walt. §
.. recurva, Buckley.
.. racemosa, Gray.
(*Andromeda* —, L. §
CASSANDRA
* .. .. calyculata, Don.
(*Andromeda*——, L.*§
CASSIOPE
* .. hypnoides, Don.
ANDROMEDA
* .. polifolia, L.
.. floribunda, Pursh.
.. Mariana, L.
.. ligustrina, Muhl.
OXYDENDRUM
.. arboreum, DC.
CLETHRA
.. alnifolia, L.
.. acuminata, Michx.
ERICA
* cinerea, L.
CALLUNA
* .. vulgaris, Salisb.
PHYLLODOCE
* taxifolia, Salisb.
(*Menziesia*—, Robb. §
(*cærulea*, Bab. *
KALMIA
.. latifolia, L.
.. .. augustifolia, L.
.. glauca, Ait.
β. rosmarinifolia, Ph.
.. hirsuta, Walt.
MENZIESIA
ferruginea, Smith.:
.. *a.* globularis, (Salisb.)
AZALEA
.. arborescens, Pursh.
(*Rhododendron*—, T. ‖
.. viscosa, L.
(*R. viscosa*, Torr. ‖
.. β. glauca, Gray.
(*v. hispida*, (Pursh.) §
γ. nitida.
.. .. nudiflora, L.
(*R. nudiflora*, Torr. ‖
.. calendulacea, Michx.
(*R. calendulacea*, T. ‖
RHODODENDRON
.. .. maximum, L.
.. Catawbiense, Michx.
* Lapponicum, Wahl.
RHODORA
.. Canadensis, L.
LEDUM
* .. latifolium, Ait.
LOISELEURIA
* .. procumbens, Desv.
LEIOPHYLLUM
.. buxifolium, Ell.
PYROLA
* .. .. .. rotundifolia, L.
β. incarnata, (Hook.)
γ. asarifolia, (Michx.)
δ. uliginosa, (T. & Gr.)
.. .. elliptica, Nutt.
.. chlorantha, Swartz.
oxypetala, Austin.
* .. .. secunda, L.
.. β. pumila, Paine.
* .. minor, L.
MONESES
* .. uniflora, Gray.
(*grandiflora*, Sal. *§
(*Pyrola uniflora*, L. *
CHIMAPHILA
* .. .. umbellata, Nutt.
.. .. maculata, Pursh.
PTEROSPORA
.. Andromedea, Nutt.
SCHWEINITZIA
.. odorata, Ell.
MONOTROPA
.. .. .. uniflora, L.
* .. .. Hypopitys, L.
.. β. lanuginosa, (Mx.)

GALACINEÆ.
GALAX
.. aphylla, L.
AQUIFOLIACEÆ.
ILEX
.. opaca, Ait.
.. Cassine, L.
.. myrtifolia, Walt.
.. Dahoon, Walt.
.. .. decidua, Walt.
.. monticola, Gray.
(*Amelanchier, v.*—, §
mollis, Gray.
(*Prinos pubescens*, Mx §
Amelanchier, Curtis.
.. .. .. verticillata, Gray.
(*Prinos*——, L. §
.. lævigata, Gray.
(*Prinos*——, Pursh. §
.. glabra, Gray.
(*Prinos*——, L. §
NEMOPANTHES
.. .. Canadensis, DC.
EBENACEÆ.
DIOSPYROS
.. .. Virginiana, L.
SAPOTACEÆ.
BUMELIA.
.. .. lycioides, Gærtn.
.. lanuginosa, Pers.
STYRACACEÆ.
STYRAX
.. grandifolia, Ait.
.. pulverulenta, Michx.
.. Americana, Lam.
HALESIA
.. tetraptera, L.
SYMPLOCOS
.. tinctoria, L'Her.
PLANTAGINACEÆ
PLANTAGO
* .. .. .. major, L.
Kamtschatica, Cham.
.. sparsiflora, Michx.
.. .. cordata, Lam.
* .. maritima, L.
.. β. juncoides, (Lam.)
* .. .. .. lanceolata, L.
.. .. Virginica, L.
.. pusilla, Nutt.
.. heterophylla, Nutt.
Patagonica, Jacq.:
.. *a.* gnaphalioides (Nutt
.. β. aristata, (Michx.)
LITTORELLA
* .. lacustris, L.
PLUMBAGINACEÆ
STATICE
.. .. Limonium, L., *a.* Caroliniana, (Walt.)
PRIMULACEÆ.
PRIMULA
* .. farinosa, L.
.. Mistassinica, Michx.
ANDROSACE
.. occidentalis, Pursh.
DODECATHEON
.. .. Meadia, L.
.. β. Frenchii, Vasey.
TRIENTALIS
.. .. Americana, Pursh.
LYSIMACHIA
* .. .. thyrsiflora, L.
(*Naumburgia*———, Reich. †
.. .. .. stricta, Ait.
β. producta, Gray.
.. .. .. quadrifolia, L.
.. .. .. ciliata, L.
.. radicans, Hook.
lanceolata, Walt.:
(*ciliata*, ‖ in part.
.. .. .. *a.* hybrida, (Michx.)
β. heterophylla, (Mx.)
.. .. γ. angustifolia, (Lam)
.. .. longifolia, Pursh.
* nummularia, L.
GLAUX
* .. maritima, L.
ANAGALLIS
* .. .. arvensis, L.
CENTUNCULUS
* .. minimus, L.
SAMOLUS
.. .. .. Valerandi, L., *a.* Americanus, Gray.
(*floribundus*, Kunth. ‖
HOTTONIA
.. .. inflata, Ell.
LENTIBULACEÆ.
UTRICULARIA
.. .. inflata, Walt.
.. .. .. vulgaris, L., *a.* Americana, Gray.

* .. minor, L.
.. clandestina, Nutt.
* .. .. intermedia, Hayne.
.. striata, Le Conte.
Robbinsii, Wood.
.. biflora, Lam.
.. .. .. gibba, L.
.. purpurea, Walt.?
resupinata, Greene.
.. .. .. cornuta, Michx.
.. subulata, L.
PINGUICULA
* .. vulgaris, L.
BIGNONIACEÆ.
BIGNONIA
.. .. capreolata, L.
TECOMA
.. .. radicans, Juss.
CATALPA
.. .. bignonioides, Walt.
MARTYNIA
.. proboscidea, Glox.
OROBANCHACEÆ.
EPIPHEGUS
.. .. Virginiana, Bart.
ORABANCHE
* minor, L.
CONOPHOLIS
.. .. Americana, Wallroth.
PHELIPÆA
.. Ludoviciana, Don.
APHYLLON
.. .. .. uniflorum, Torr. & Gr.
.. fasciculatum, T. & Gr.
SCROPHULARIACEÆ
VERBASCUM
* .. .. .. Thapsus, L.
* .. .. .. Blattaria, L.
* .. Lychnitis, L.
LINARIA
.. .. Canadensis, Spreng.
* .. .. .. vulgaris, Miller.
β. Peloria, Wood.
* genistifolia, Miller.
* .. Elatine, Miller.
ANTIRRHINUM
* .. Orontium, L.
* majus, L.
SCROPHULARIA
* .. .. .. nodosa, L.
COLLINSIA
.. verna, Nutt.
parviflora, Dougl.
w violacea, Nutt.
CHELONE
.. .. .. glabra, L.
β. purpurea, Wood.
PENSTEMON.
.. .. .. pubescens, Solander.
.. .. Digitalis, Nutt.
.. grandiflorus, Fraser.
MIMULUS
.. .. .. ringens, L.
.. .. alatus, Ait.
.. .. Jamesii, Torr.
CONOBEA
.. multifida, Benth.
HERPESTIS
.. rotundifolia, Pursh.
.. amplexicaulis, Pursh.
.. Monniera, H. B. K.
GRATIOLA
.. .. .. Virginiana, L.
.. .. sphærocarpa, Ell.
viscosa, Schw.
.. .. aurea, Muhl.
.. pilosa, Michx.
ILYSANTHES
.. .. .. gratioloides, Benth.
MICRANTHEMUM
.. Nuttallii, Gray.
(*orbiculatum*, Mx. § ‖
(*Hemianthus micranthemoides*, Nutt. †
LIMOSELLA
aquatica, L., *a.* tenuifolia, (Nutt.)
SYNTHYRIS
.. Houghtoniana, Benth
VERONICA
.. .. .. Virginica, L.
* .. .. .. Anagallis, L.
.. .. .. Americana, Schw.
* chamædrys, L.
* .. .. scutellata, L.
.. β. tomentosa, Macoun
* .. .. officinalis, L.
* alpina, L.
* .. .. .. serpyllifolia, L.
* .. .. .. peregrina, L.
* .. .. .. arvensis, L.
* .. .. agrestis, L.
* Buxbaumii, Tenore.
* hederæfolia, L.

E.C.I.V. BUCHNERA
.. .. Americana, L.
SEYMERIA
.. macrophylla, Nutt.
GERARDIA
.. .. .. purpurea, L.
.. maritima, Raf.
.. aspera, Dougl.
.. .. .. tenuifolia, Vahl.
Skinneriana, Wood.
.. .. setacea, Walt.
.. .. .. flava, L.
(*Dasystoma*–, Wood. §
(*D. pubescens*, Benth. ‖
.. .. .. quercifolia, Pursh.
(*Dasystoma*–, Bnth. ‖ §
.. .. .. integrifolia, Gray.
(*Dasystoma*–, Wood. §
.. grandiflora, Benth.
(*Dasystoma*–, Wood. §
.. .. .. pedicularia, L.
(*Dasystoma*–, Bnth. ‖ §
.. auriculata, Michx.
(*Otophylla Michauxii*, Benth, ‖
CASTILLEIA
.. .. .. coccinea, Spreng.
* .. pallida, Kunth.
(*septentrionalis*, Lindl
.. sessiliflora, Pursh.
SCHWALBEA
.. Americana, L.
EUPHRASIA
officinalis, L.:
.. α. pusilla, (Godet.)
RHINANTHUS
* .. Christa-galli, L.
PEDICULARIS
.. .. .. Canadensis, L.
.. .. .. lanceolata, Michx.
MELAMPYRUM
.. .. Americanum, Michx.
(*pratense*, L.v.–, Bth. §
ACANTHACEÆ.
DIANTHERA
.. .. .. Americana, L.
RUELLIA
.. .. ciliosa, Pursh.
(*Dipteracanthus ciliosus*, Nees. † ‖
.. .. strepens, L.
(*D. strepens*, Nees. † ‖
β. micranthus, Gray.
VERBENACEÆ.
VERBENA
.. .. .. angustifolia, Michx.
.. .. .. hastata, L.
.. .. .. urticifolia, L.
.. stricta, Vent.
* .. .. officinalis, L.
.. bracteosa, Michx.
.. Aubletia, L.
LIPPIA
.. .. lanceolata, Michx.
(*nodiflora*, Michx. ‖ §
CALLICARPA
.. Americana, L.
PHRYMA
.. .. .. Leptostachya, L.
LABIATÆ.
AJUGA
* reptans, L.
TEUCRIUM
.. .. .. Canadense, L.
TRICHOSTEMA
.. .. dichotomum, L.
.. lineare, Nutt.
ISANTHUS
.. .. .. cæruleus, Michx.
MENTHA
* .. rotundifolia, L.
* .. .. .. viridis, L.
* sylvestris, L.
* .. .. .. piperita, L.
* β. subhirsuta, Benth.
* aquatica, L.
* β. glabrata, Benth.
(*citrata*, Ehrh. *
* γ. crispa, Benth.
* .. sativa, L.
* arvensis, L.
.. .. Canadensis, L.
β. glabrata, Benth.
(*v. borealis*, (Michx.) §
LYCOPUS
.. .. .. Virginicus, L.
β. pumilus, (Vahl.)
γ. macrophyllus.
* .. Europæus, L.
β. sessilifolius, Gray.
γ. integrifolius, Gray.
(*v. rubellus*, (Mœnch §
δ. angustifolius, (Nutt
.. .. .. ε. sinuatus, (Ell.)
ς. exaltatus, (Ell.)

PERILLA
* ocimoides, L., α. crispa
CUNILA
.. .. Mariana, L.
HYSSOPUS
* .. officinalis, L.
PYCNANTHEMUM
.. aristatum, Michx.
.. β. hyssopifolium, Gr.
.. Tullia, Benth.
(*incanum*, *v.*–, Chapm ‖
.. .. incanum, Michx.
clinopodioides, T.&G.
Torreyi, Benth.
.. pilosum, Nutt.
.. muticum, Pers.
w dealbatum, T. & Gr.
.. .. .. lanceolatum, Pursh.
.. .. linifolium, Pursh.
.. montanum, Michx.
ORIGANUM
* vulgare, L.
THYMUS
* Serpyllum, L.
SATUREIA
* .. .. hortensis, L.
CALAMINTHA
* .. Nepeta, Link.
glabella, Benth.
.. .. β. Nuttallii, Gray.
(*v. diversifolia*, §
* .. .. Clinopodium, Benth.
(*Clinopodium, vulgare*, L. *
DICERANDRA
.. linearifolia, Benth.
MELISSA
* .. officinalis, L.
HEDEOMA
.. .. .. pulegioides, Pers.
.. .. hispida, Pursh.
COLLINSONIA
.. .. .. Canadensis, L.
SALVIA
w trichostemoides, Ph.
* Sclarea, L.
.. .. lyrata, L.
.. urticifolia, L.
w azurea, Lam.
MONARDA
.. didyma, L.
.. .. .. fistulosa, L.
.. Bradburiana, Beck.
.. .. punctata, L.
BLEPHILIA
.. .. ciliata, Raf.
.. .. hirsuta, Benth.
LOPHANTHUS
.. .. .. nepetoides, Benth.
.. .. scrophulariæfolius, Benth.
anisatus, Benth.
NEPETA
* .. .. .. Cataria, L.
* .. .. .. Glechoma, Benth.
(*Glech. hederacea*, L. *
DRACOCEPHALUM
.. .. parviflorum, Nutt.
CEDRONELLA
.. cordata, Benth.
SYNANDRA
.. grandiflora, Nutt.
PHYSOSTEGIA
.. .. .. Virginiana, Benth.
intermedia, Gray.
BRUNELLA
* .. .. .. vulgaris, L.
(*Prunella*——, L. *
SCUTELLARIA
.. .. versicolor, Nutt.
.. rugosa, Wood.
.. saxatilis, Riddell.
.. canescens, Nutt.
.. .. serrata, Andrews.
.. pilosa, Michx.
.. integrifolia, L.
.. .. nervosa, Pursh.
.. .. .. parvula, Michx.
* .. .. .. galericulata, L.
.. .. .. lateriflora, L.
MARRUBIUM
* .. .. .. vulgare, L.
GALEOPSIS
* .. Tetrahit, L.
* β. grandiflora, Gray.
* Ladanum, L.
STACHYS
* arvensis, L.
* .. palustris, L.
.. .. .. β. aspera, (Michx.) Gr.
.. γ. glabra, (Rid.) Gr.
.. δ. cordata, (Rid.) Gr.
.. .. hyssopifolia, Michx.
BETONICA
* officinalis, L.

LEONURUS
* .. .. .. Cardiaca, L.
* Marrubiastrum, L.
LAMIUM
* .. .. amplexicaule, L.
* purpureum, L.
* album, L.
BALLOTA
* nigra, L.
PHLOMIS
* tuberosa, L.
BORRAGINACEÆ.
ECHIUM
* .. .. vulgare, L.
LYCOPSIS
* .. arvensis, L.
(*Anchusa*——, Bieb. *
SYMPHYTUM
* .. .. officinale, L.
ONOSMODIUM
.. .. Virginianum, DC.
.. .. .. Carolinianum, DC.
.. molle, Michx.
LITHOSPERMUM
* .. .. .. arvense, L.
.. angustifolium, Mx.
* .. officinale, L.
.. .. latifolium, Michx.
.. .. .. hirtum, Lehm.
.. .. .. canescens, Lehm.
.. .. longiflorum, Spreng.
MERTENSIA
.. .. Virginica, DC.
* .. maritima, Don.
.. paniculata, Don.
MYOSOTIS
* .. palustris, With.
* .. β. laxa, (Lehm.) Gr.
* .. arvensis, Hoffm.
(*intermedia*, Link. *
.. .. .. verna, Nutt.
* versicolor, Pers.
ECHINOSPERMUM
* .. .. Lappula, Lehm.
w Redowskii, Lehm.
CYNOGLOSSUM
* .. .. .. officinale, L.
.. .. .. Virginicum, L.
.. .. .. Morisoni, DC.
HELIOTROPIUM
* Europæum, L.
.. .. Curassavicum, L.
w tenellum, Torr.
HELIOPHYTUM
.. Indicum, DC.
HYDROPHYLLACEÆ
HYDROPHYLLUM
.. .. macrophyllum, Nutt.
.. .. .. Virginicum, L.
.. .. .. Canadense, L.
.. .. .. appendiculatum, Mx.
NEMOPHILA
.. microcalyx, Fisch&M
ELLISIA
.. .. Nyctelea, L.
.. ambigua, Nutt.
PHACELIA
.. bipinnatifida, Michx.
.. .. Purshii, Buckley.
(*Cosmanthus*–, Wood §
.. fimbriata, Michx.
(*Cosmanthus*—, Mx. §
.. parviflora, Pursh.
.. Franklinii, Gray.
HYDROLEA
.. affinis, Gray.
(*quadrivalvis*, † non Wlt
POLEMONIACEÆ.
POLEMONIUM
.. .. reptans, L.
* cæruleum, L.
PHLOX
.. .. paniculata, L.
.. .. β. acuminata, (Pursh)
.. .. maculata, L.
.. .. Carolina, L.
β. ovata, (L.) Benth.
γ. nitida, (Ph.) Benth.
.. .. glaberrima, L.
.. .. .. pilosa, L.
.. .. procumbens, Lehm.
(*Walteri*, Chapm. ‖
(*amœna*, Sims.
.. .. reptans, Michx.
.. .. .. divaricata, L.
.. bifida, Beck.
stellaria, Gray.
.. .. subulata, L.
COLLOMIA
.. gracilis, Dougl.
DIAPENSIA
* Lapponica, L.
PYXIDANTHERA
.. barbulata, Michx.
(*Diapensia*—, Ell. §

CONVOLVULACEÆ.
QUAMOCLIT
.. .. Coccinea, Mœnch.
vulgaris, Choisy.
IPOMŒA
.. .. .. purpurea, Lam.
(*Pharbitis*—, Wood. §
(*P. hispida*, Choisy. ‖
.. .. Nil, Roth.
(*P. Nil*, Choisy. ‖ §
.. .. lacunosa, L.
.. .. pandurata, Meyer.
CONVOLVULUS
* .. .. .. arvensis, L.
CALYSTEGIA
* .. .. .. sepium, R. Br.
(*Convolvulus*—, L. *
.. β. pubescens, Gray.
(*v. Catesbyana*, (Ph.) ‖ §
.. .. .. spithamæa, Pursh.
BONAMIA
.. humistrata, Gray.
(*Stylisma*—, Chapm ‖ §
(*S. evolvuloides*, Ch'y. †
.. aquatica, Gray.
(*Stylisma*—, Chapm. ‖
.. .. Pickeringii, Gray.
EVOLVULUS
w argenteus, Pursh.
DICHONDRA
.. repens, Forst, α. Carolinensis, (Mx.) Ch'y.
CUSCUTA
* Epilinum, Weihe.
.. tenuiflora, Engelm.
.. .. inflexa, Engelm.
(*umbrosa*, Beyrich. †
.. decora, Choisy.
arvensis, Beyrich.:
.. α. pentagona, (Eng.)
.. β. microcalyx, (Eng.)
.. chlorocarpa, Engelm.
.. .. .. Gronovii, Willd.
.. rostrata, Shuttl.
compacta, Juss.:
.. .. α. coronata, (Beyrich)
.. β. adpressa, (Engelm.)
.. glomerata, Choisy.
SOLANACEÆ.
SOLANUM
* .. .. .. Dulcamara, L.
* .. .. .. nigrum, L.
.. .. Carolinense, L.
.. Virginianum, L.
w rostratum, Drum.
PHYSALIS
.. grandiflora, Hook.
.. Philadelphica, Lam.
(*angulata*, *v.*—, Gr. †
.. .. angulata, L.
.. .. pubescens, L.
.. .. .. viscosa, L.
Pennsylvanica, L.
.. .. β. lanceolata, (Mx.)
* Alkekengi, L.
NICANDRA
* .. .. .. physaloides, Gærtn.
LYCIUM
* .. vulgare, Dunal.
(*Barbarum*, L * §
HYOSCYAMUS
* .. .. niger, L.
DATURA
* .. .. .. Stramonium, L.
.. Tatula, L.
(*Stramonium*, *v.*—, † ‖ §
NICOTIANA
* .. .. rustica, L.
GENTIANACEÆ.
SABBATIA
... paniculata, Pursh.
.. lanceolata, Torr. & Gr.
.. brachiata, Ell.
.. .. angularis, Pursh.
.. calycosa, Pursh.
.. stellaris, Pursh.
(*gracilis*, *v.*—, Wood. §
.. gracilis, Salisb.
.. chloroides, Pursh.
ERYTHRÆA
* Centaurium, Pers.
ramosissima, Pers.:
* .. α. pulchella, Griseb.
(*v. Muhlenbergii*, §
* .. spicata, Pers.
FRASERA
.. Carolinensis, Walt.
HALENIA
.. deflexa, Griseb.
GENTIANA
.. .. .. quinqueflora, Lam.
.. β. occidentalis, Gray.
(*v. parviflora*, Wood. §
.. acuta, Michx.

.. .. .. crinita, Frœl.
* .. .. detonsa, Fries.
.. .. ochroleuca, Frœl.
.. .. alba, Muhl.
.. .. .. Andrewsii, Griseb.
.. .. Saponaria, L.
.. β. linearis, (Frœl.)
.. puberula, Michx.
.. augustifolia, Michx.
PLEUROGYNE
.. rotata, Griseb.
BARTONIA
.. tenella, Muhl.
.. verna, Muhl.
OBOLARIA
.. .. Virginica, L.
MENYANTHES
* .. .. trifoliata, L.
LIMNANTHEMUM
.. .. lacunosum, Griseb.
.. trachyspermum, Gr.
LOGANIACEÆ.
GELSEMIUM
.. sempervirens, Ait.
POLYPREMUM
.. procumbens, L.
SPIGELIA
.. .. Marilandica, L.
MITREOLA
.. petiolata, Torr. & Gr.
.. sessilifolia, Torr. & Gr.
APOCYNACEÆ.
AMSONIA
.. .. Tabernæmontana, Wt
FORSTERONIA
.. .. difformis, A. DC.
VINCA
* minor, L.
APOCYNUM
.. .. .. androsæmifolium, L.
cannabinum, L.:
.. α. glaberrimum, DC.
.. .. β. pubescens, (Br.) DC
.. γ. hypericifolium, (Ait
ASCLEPIADACEÆ.
ASCLEPIAS
.. .. .. Cornuti, Decaisne.
.. Sullivantii, Engelm.
.. .. .. phytolaccoides, Pursh
.. .. .. purpurascens, L.
.. .. variegata, L.
β. nivea, (L.) Wood. §
.. ovalifolia, Decaisne.
.. .. .. quadrifolia, Jacq.
.. perennis, Walt.
(*parviflora*, Pursh. †
.. .. incarnata, L.
.. .. β. pulchra, (Willd.)
.. .. obtusifolia, Michx.
.. Meadii, Torr.
.. rubra, L.
.. paupercula, Michx.
.. .. .. tuberosa, L.
.. .. .. verticillata, L.
ACERATES
.. .. viridiflora, Ell.
.. lanuginosa, Decaisne.
(*monocephala*, Laph. †
.. longifolia, Ell.
w angustifolia, Decaisne
.. paniculata, Decaisne.
ENSLENIA
.. albida, Nutt.
VINCETOXICUM
* nigrum, Mœnch.
GONOLOBUS
.. .. lævis, Michx.
(*macrophyllus*, Mx. † ‖
.. obliquus, R. Br.
(*hirsutus*, † non Mx.
.. hirsutus, Michx.
PERIPLOCA
* Græca, L.
OLEACEÆ.
LIGUSTRUM
* .. vulgare, L.
OLEA
.. Americana, L.
CHIONANTHUS
.. Virginica, L.
FRAXINUS
.. .. .. Americana, L.
.. .. pubescens, Lam.
.. .. viridis, Michx, f.
.. .. sambucifolia, Lam.
.. quadrangulata, Mx.
.. platycarpa, Michx.
FORESTIERA
.. acuminata, Poir.
ARISTOLOCHIACEÆ
ASARUM
.. .. .. Canadense, L.
.. Virginicum, L.
.. arifolium, Michx.

ARISTOLOCHIA
.. .. Serpentaria, L.
.. Sipho, L'Her.
.. tomentosa, Sims.
NYCTAGINACEÆ.
ABRONIA
w fragrans, Nutt.
OXYBAPHUS
.. nyctagineus, Sweet.
w angustifolius, Sweet.
PHYTOLACCACEÆ
PHYTOLACCA
.. .. .. decandra, L.
CHENOPODIACEÆ.
CYCLOLOMA
.. platyphyllum, Moq.
CHENOPODIUM
* polyspermum, L.
* .. .. .. album, L.
* β. viride, (L.)
γ. Boscianum, (Moq.)
* .. .. glaucum, L.
* .. .. urbicum, L.
* β. rhombifolium, Moq
* .. .. murale, L.
* .. .. .. hybridum, L.
* .. .. Botrys, L.
* .. .. .. ambrosioides, L.
.. .. β. anthelminticum, (L.
* multifidum, L.
(*Roubieva*—, Moq. * † §
BLITUM
maritimum, Nutt.
* .. .. capitatum, L.
* Bonus-Henricus, Rch.
(*Chenopodium*—, L. *
ATRIPLEX
patula, L.:
* .. .. .. α. hastata, (L.) Gray.
* .. β. littoralis, (L.) Gray.
.. arenaria, Nutt.
(*Obione*——, Moq. † ‖
* rosea, L.
CORISPERMUM
* .. .. hyssopifolium, L.
SALICORNIA
* .. .. herbacea, L.
.. Virginica, L.
(*mucronata*, Lag., Big †
.. fruticosa, L., α. ambigua, (Mx.) Gray.
SUÆDA
* .. .. .. maritima, Dumortier.
(*Chenopodina*–, Mq. † §
SALSOLA
* .. .. Kali, L.
AMARANTACEÆ.
AMARANTUS
.. hypochondriacus, L.
.. paniculatus, L.
* .. .. retroflexus, L.
* .. β. chlorostachys, Gr.
.. .. .. γ. hybridus, (L.) Gr.
* .. .. .. albus, L.
.. .. spinosus, L.
.. lividus, L.
(*Euxolus*——, Raf. † §
.. pumilus, Raf.
(*Euxolus*——, Raf. † §
* viridis, L.
(*E. deflexus*, † non Raf.
MONTELIA
.. .. tamariscina, Gray.
(*Acnida*——, Wood. §
.. β. concatenata, Gray.
ACNIDA
.. cannabina, L.
IRESINE
.. celosioides, L.
FRŒLICHIA
.. Floridana, Moquin.
POLYGONACEÆ.
POLYGONUM
* .. viviparum, L.
.. .. .. orientale, L.
Careyi, Olney.
.. .. .. Pennsylvanicum, L.
.. .. .. incarnatum, Ell.
(*nodosum*, Pers., *v.*—, †
lapathifolium, Ait.:
* α. incanum, Koch.
.. persicarioides, Koch.
* .. .. .. Persicaria, L.
* .. .. .. Hydropiper, L.
.. .. .. acre, H. B. K.
.. .. .. hydropiperoides, Mx.
amphibium, L.:
* .. .. α. aquaticum, Willd.
* .. .. β. terrestre, Willd.
.. Hartwrightii, Gray.
.. .. .. Virginianum, L.
.. .. articulatum, L.
(*Polygonella articulata*, Meisner. ‖ §

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MISSOURI BOTANICAL GARDEN

* .. .. .. aviculare, L.
.. .. .. *β*. erectum, (L.) Roth.
* .. .. .. maritimum, L.
(*aviculare, v. littorale*, Link. †‖
.. .. ramosissimum, Mx.
.. .. .. tenue, Michx.
.. .. arifolium, L.
.. .. .. sagittatum, L.
* .. .. .. Convolvulus, L.
.. .. .. cilinode, Michx.
* .. .. .. dumetorum, L.
β. scandens, (L.)
FAGOPYRUM
* .. .. .. esculentum, Mœnch.
(*Polyg. Fagopyrum*, L*
OXYRIA
* digyna, Campd.
(*reniformis*, Hook. *§
RUMEX
* Patientia, L.
.. .. orbiculatus, Gray.
(*Hydrolapathum*, Huds., *v. Americanus*, Gray. †
(*Hydr. v. orbiculatus*, §
.. Brittanica, L.
(*altissimus*, Wood. §
.. .. salicifolius, Weinm.
.. .. .. verticillatus, L.
* .. .. .. crispus, L.
* .. .. .. obtusifolius, L.
* .. conglomeratus, Murr.
(*acutus*, Smith. *
* .. .. sanguineus, L.
* .. .. .. maritimus, L.
.. Engelmanni, Ledeb.
* .. Acetosa, L.
* .. .. .. Acetosella, L.
BRUNNICHIA
.. cirrhosa, Banks.
ERIOGONUM
.. tomentosum, Michx.
LAURACEÆ.
PERSEA
.. Carolinensis, Nees.
SASSAFRAS
.. .. .. officinale, Nees.
LINDERA
.. .. .. Benzoin, Meisner.
(*Benzoin odoriferum*, Nees. †§
.. melissæfolia, Blume.
(*Benzoin*——, Nees. †‖
TETRANTHERA
.. geniculata, Nees.
THYMELEACEÆ.
DIRCA
.. .. .. palustris, L.
ELÆAGNACEÆ.
SHEPHERDIA
.. .. Canadensis, Nutt.
w argentea, Nutt.
ELÆAGNUS
w argentea, Pursh.
SANTALACEÆ.
COMANDRA
.. .. .. umbellata, Nutt.
.. livida, Richardson.
PYRULARIA
.. oleifera, Gray.
(*pubera*, Michx. §
LORANTHACEÆ.
ARCEUTHOBIUM
pusillum, Peck.
(*Oxycedri*, Bieber, *v. abigenium*, Wood. §
PHORADENDRON
.. flavescens, Nutt.
SAURURACEÆ.
SAURURUS
.. .. .. cernuus, L.
CERATOPHYLLACEÆ
CERATOPHYLLUM
demersum, L.:
* .. .. .. *α*. commune, Gray.
β. echinatum, Gray.
CALLITRICHACEÆ
CALLITRICHE
.. Austini, Engelm.
* .. .. .. verna, L.
.. *β*. brevifolia, (Pursh.)
(*v. terrestris*, Gray. †‖
.. heterophylla, Pursh.
β. brevifolia, (Pursh.)
γ. linearis, (Pursh.)
* .. .. autumnalis, L.
PODOSTEMACEÆ.
PODOSTEMON
.. ceratophyllus, Michx.
EUPHORBIACEÆ.
EUPHORBIA
.. .. .. polygonifolia, L.
.. .. Geyeri, Engelm.
w petaloidea, Engelm.
.. serpens, H. B. K.
(*herniarioides*, Nutt. †
serpyllifolia, Pers.
.. .. glyptosperma, Eng.
.. .. .. maculata, L.
.. humistrata, Engelm.
.. .. hypericifolia, L.
w marginata, Pursh.
.. .. .. corollata, L.
.. .. dentata, Michx.
.. heterophylla, L.
(*cyathophora*, Jacq. †‖
.. Ipecacuanhæ, L.
.. Darlingtonii, Gray.
* platyphylla, L.
.. .. .. obtusata, Pursh.
dictyosperma, F. & M.
(*Arkansana*, Eng. & Gr
* .. .. Helioscopia, L.
* Esula, L.
* .. Cyparissias, L.
* .. Peplus, L.
.. .. .. commutata, Engelm.
(*Ohiotica*, St. & Hoch. §
* .. Lathyris, L.
JATROPHA
.. urens, L., *α*. stimulosa, J. Muller.
(*Cnidoscolus stimulosus*, Gray. †‖
STILLINGIA
.. sylvatica, L.
ACALYPHA
.. .. .. Virginica, L.
.. .. *β*. intermedia, J. Mull.
.. .. *γ*. gracilens, (Gray.)
(*v. gracillenta*, Wood. §
Caroliniana, Walt.
TRAGIA
.. innocua, Walt.
(*urens*, L. †‖
.. urticæfolia, Michx.
macrocarpa, Willd.
CROTON
.. .. glandulosus, L.
.. capitatus, Michx.
.. monanthogynus, Mx.
CROTONOPSIS
.. .. linearis, Michx.
PHYLLANTHUS
.. .. Carolinensis, Walt.
PACHYSANDRA
.. procumbens, Michx.
EMPETRACEÆ.
EMPETRUM
* .. nigrum, L.
COREMA
.. Conradii, Torrey.
URTICACEÆ.
ULMUS
.. .. .. fulva, Micheli.
.. .. .. Americana, L., Willd.
.. .. racemosa, Thomas.
.. .. alata, Michx.
PLANERA
aquatica, Gmelin.
CELTIS
.. .. .. occidentalis, L.
.. *β*. pumila, (Pursh.)
.. *γ*. crassifolia, (Lam.)
.. Mississippiensis, Bosc
(*occidentalis, v. integrifolia*, (Nutt.) ‖§
MORUS
.. .. rubra, L.
* alba, L.
BROUSSONETIA
papyrifera, Vent.
URTICA
.. .. .. gracilis, Ait.
(*procera*, Willd. §
* dioica, L.
* .. .. urens, L.
chamædryoides, Ph.
(*purpurascens*, Nutt. †
LAPORTEA
.. .. .. Canadensis, Gaudich.
PILEA
.. .. .. pumila, Gray.
BŒHMERIA
.. .. .. cylindrica, Willd.
.. *β*. lateriflora, (Muhl.)
PARIETARIA
.. .. .. Pennsylvanica, Muhl.
CANNABIS
* .. .. .. sativa, L.
HUMULUS
* .. .. .. Lupulus, L.
PLATANACEÆ.
PLATANUS
.. .. .. occidentalis, L.
JUGLANDACEÆ.
JUGLANS
.. .. .. cinerea, L.
.. .. .. nigra, L.
CARYA
.. olivæformis, Nutt.
.. .. .. alba, Nutt.
.. microcarpa, Nutt.
.. .. sulcata, Nutt.
.. .. tomentosa, Nutt.
.. .. porcina, Nutt.
(*glabra* Torr. †‖
.. .. .. amara, Nutt.
CUPULIFERÆ.
QUERCUS
.. .. .. alba, L.
.. .. obtusiloba, Michx.
(*stellata*, Wang.
.. .. .. macrocarpa, Michx.
β. olivæformis, (Mx.)
.. .. .. bicolor, Willd.
(*Prinus v. discolor*, Michx. f. †‖
.. .. Prinus, L.
.. .. *β*. monticola, Michx.
.. .. .. *γ*. acuminata, Michx.
(*Castanea*, Muhl. †‖
.. .. *δ*. humilis, Marshall.
(*prinoides*, Willd. †‖
(*v. prinoides*, Wood. §
.. virens, Ait.
.. cinerea, Michx.
.. Phellos, L.
.. .. imbricaria, Michx.
.. aquatica, Catesby.
.. .. nigra, L.
.. tridentata, Engelm.
w quinqueloba, Engelm.
.. Leana, Nutt.
heterophylla, Michx.
triloba, Michx.
.. .. ilicifolia, Wang.
.. .. falcata, Michx.
.. .. .. coccinea, Wang.
.. .. .. *β*. tinctoria, (Bartr.)
.. *γ*. ambigua, Gray.
.. .. rubra, L.
.. *β*. runcinata, Engelm.
.. .. palustris, Du Roi.
CASTANEA
.. .. versa, L., *α*. Americana, Michx.
.. pumila, Michx.
FAGUS
.. .. .. ferruginea, Ait.
CORYLUS
.. .. .. Americana, Walt.
.. .. rostrata, Ait.
OSTRYA
.. .. .. Virginica, Willd.
CARPINUS
.. .. .. Americana, Michx.
MYRICACEÆ.
MYRICA
* .. .. Gale, L.
.. .. cerifera, L.
β. Carolinensis, Wood.
COMPTONIA
.. .. .. asplenifolia, Ait.
BETULACEÆ.
BETULA
.. .. .. lenta, L.
.. lutea, Michx. f.
(*excelsa*, † ‖ non Ait.
* .. alba, L., *α*. populifolia, (Ait.) Spach.
.. .. papyracea, Ait.
β. minor, Tuckerman.
.. .. .. nigra, L.
.. .. pumila, L.
glandulosa, Michx.
(*nana*, † non L.
β. rotundifolia, (Spach
ALNUS
* .. .. viridis, DC.
* .. incana, Willd.
β. glauca, Ait.
.. serrulata, Ait.
maritima, Muhl.
SALICACEÆ.
SALIX
.. .. candida, Willd.
.. .. tristis, Ait.
β. microphylla, Gray.
.. .. .. humilis, Marshall.
.. .. discolor, Muhl.
.. *β*. ?eriocephala, (Mx.) †
.. .. sericea, Marshall.
(*petiolaris, v.*———, §
.. .. .. petiolaris, Smith.
* .. purpurea, L.
* .. viminalis, L.
* *β*. Smithiana, (Willd.)
.. .. cordata, Muhl.
β. rigida, (Muhl.)
γ. myricoides, (Muhl.)
.. .. *δ*. angustata, (Pursh.)
.. .. livida, Wahl., *α*. occidentalis, Gray.
(*rostrata*, Richards. †
(*vagans, v.*——, Wood. §
chlorophylla, Anders.
(*phylicifolia*, † non L.
.. .. lucida, Muhl.
(*?pentandra*, L. *
.. .. .. nigra, Marshall.
β. falcata, (Pursh.) Gr.
γ. amygdaloides, And.
fragilis, L.:
* .. .. .. *α*. decipiens, (Hoffm.)
* *β*. Russelliana, (Sm.)
* *γ*. viridis, (Fries.)
alba, L.:
* .. .. *α*. vitellina, (Sm. & Bor.
* *β*. cærulea, (Sm.)
.. .. longifolia, Muhl.
* .. .. myrtilloides, L.
(*pedicellaris*, Pursh. †
Cutleri, Tuckerman.
(*Uva-Ursi*, Pursh. †
argyrocarpa, Anders.
(*repens*, † non L.
* herbacea, L.
POPULUS
.. .. tremuloides, Michx.
.. .. .. grandidentata, Michx
.. .. heterophylla, L.
.. .. .. monilifera, Ait.
(*Canadensis*, Mx. f. §
.. .. angulata, Ait.
.. .. balsamifera, L.
.. *β*. candicans, (Ait.)
CONIFERÆ.
PINUS
.. Tæda, L.
.. rigida, Miller.
.. pungens, Michx.
.. inops, Ait.
.. .. Banksiana, Lambert.
(*Hudsonica*, Poir. §
.. .. mitis, Michx.
.. .. resinosa, Ait.
.. .. .. Strobus, L.
ABIES
.. .. nigra, Poir.
.. alba, Michx.
.. .. Canadensis, Michx.
.. balsamea, Marshall.
.. Fraseri, Pursh.
LARIX
.. .. Americana, Michx.
THUJA
.. .. .. occidentalis, L.
CUPRESSUS
.. .. thyoides, L.
TAXODIUM
.. .. distichum, Richard.
JUNIPERUS
* .. .. communis, L.
* *β*. alpina, L.
(*nana*, Willd. *
.. .. .. Virginiana, L.
.. Sabina, L., *α*. procumbens, Pursh.
(*Virginiana, v. humilis*, Hook. †
TAXUS
.. baccata, L., *α*. Canadensis, (Willd.) Gray
ARACEÆ.
ARISÆMA
.. .. .. triphyllum, Torr.
.. .. Dracontium, Schott.
PELTANDRA
.. .. .. Virginica, Raf.
CALLA
* .. palustris, L.
SYMPLOCARPUS
.. .. .. fœtidus, Salisb.
ORONTIUM
.. .. aquaticum, L.
ACORUS
* .. .. .. Calamus, L.
LEMNACEÆ.
LEMNA
* .. .. trisulca, L.
Torreyi, Austin.
(*Valdiviana*, Phil.
.. perpusilla, Torr.
β. trinervis, Austin.
.. paucicostata, Hegelm
* .. .. .. minor, L.
.. *β*. obscura, Austin.
γ. orbiculata, Austin.
* .. .. .. polyrrhiza, L.
WOLFFIA
.. .. Columbiana, Karsten.
.. Brasiliensis, Weddell.
TYPHACEÆ.
TYPHA
* .. .. .. latifolia, L.
* angustifolia, L.
SPARGANIUM
.. .. eurycarpum, Engelm.
* .. simplex, Hudson.
.. *β*. Nuttallii, Engelm.
.. .. .. *γ*. androcladum, Eng.
(*ramosum*, †‖ non Hud.
* *δ*. fluitans, (Fr.) Eng.
(*v. natans*, Wood. §
* .. .. *ε*. angustifolium, (Mx)
(*natans*, L., *v. affine*, (Schn.) Fries. * †
* .. .. minimum, Bauhin, Fr.
(*angustifolium*, † non Michx.
NAIADACEÆ.
NAIAS
* major, All.
* .. .. .. flexilis, Rostk.
(*Caulinia*——, Willd.
* Indica, Cham., *v.* gracillima, Braun.
ZANNICHELLIA
* .. .. .. palustris, L.
β. pedunculata, Gray.
ZOSTERA
* .. .. marina, L.
RUPPIA
* .. .. maritima, L.
POTAMOGETON
* .. .. natans, L.
* *β*. prolixus, Koch.
Oakesianus, Robbins.
.. .. .. Claytonii, Tuckerm.
(*heterophyllus*, † ‖ in part, non Schreb.
.. .. Vaseyi, Robbins.
.. .. Spirillus, Tuckerman.
.. .. hybridus, Michx.
β. spicatus, Engelm.
γ. diversifolius, Wood.
* .. .. rufescens, Schrader.
obrutus, Wood.
(*rufescens*, ‡ in part.
.. .. lonchites, Tuckerman
(*fluitans*, ‖§ non Roth.
pulcher, Tuckerman.
.. amplifolius, Tuckerm.
gramineus, L.
(*heterophyllus*, Schreb †‖ in part.
* *α*. graminifolius, Fr.
* .. .. *β*. heterophyllus, Fr.
γ.? spathulæformis, R.
.. *δ*.? myriophyllus, Rob.
* .. .. lucens, L.
.. *β*. minor, Nolte.
γ.? Connecticutensis, Robbins.
* .. prælongus, Wulfen.
* .. .. .. perfoliatus, L.
.. *β*. lanceolatus, Rob.
* crispus, L.
* .. compressus, L.
* .. obtusifolius, Mert. & K
Niagarensis, Tuckerm
(*pauciflorus, v.*—, Gr. †
.. .. .. pauciflorus, Pursh.
* .. .. pusillus, L.
* *β*. major, Fries.
(*mucronatus*, Schrad. *
* .. *γ*. vulgaris, Fries.
* *δ*. tenuissimus, Mert.
ε. ? gemmiparus, Rob.
Tuckermani, Rob.
* .. .. .. pectinatus, L.
.. Robbinsii, Oakes.
ALISMACEÆ.
TRIGLOCHIN
* .. .. palustre, L.
* .. .. maritimum, L.
β. elatum, (Nutt.) Gr.
.. triandrum, Michx.
SCHEUCHZERIA
* .. .. palustris, L.
ALISMA
Plantago, L.:
.. .. .. *α*. Americanum.
ECHINODORUS
.. parvulus, Engelm.
.. rostratus, Engelm.
.. radicans, Engelm.
SAGITTARIA
.. lancifolia, L.
(*falcata*, Pursh. † ‖
variabilis, Engelm.:
.. *α*. obtusa, (Wld.) Eng.
.. *β*. latifolia, (Wld.) Eng
.. .. .. *γ*. hastata, (Ph.) Eng.
.. *δ*. diversifolia, Eng.
.. *ε*. angustifolia, Eng.
ς. gracilis, (Ph.) Eng.
.. *η*. pubescens, (Muhl.)
.. calycina, Engelm.
w *β*. fluitans, Engelm.
γ. spongiosa, Engelm.
.. .. .. heterophylla, Pursh.
β. elliptica, Engelm.
γ. rigida, (Ph.) Eng.
δ. angustifolia, Eng.
.. .. .. graminea, Michx.
(*simplex*, †‖ non Ph.
.. pusilla, Nutt.
HYDROCHARIDACEÆ
LIMNOBIUM
.. .. Spongia, Richard.
ANACHARIS
* .. .. .. Canadensis, Planch.
VALLISNERIA
* .. .. .. spiralis, L.
BURMANNIACEÆ.
BURMANNIA
.. biflora, L.
ORCHIDACEÆ.
ORCHIS
.. .. spectabilis, L.
HABENARIA
(*ORCHIS* § *)
(*PLATANTHERA* &
(*GYMNADENIA* † ‖ *
.. .. .. tridentata, Hook.
(*O.*–, Muhl. *G.*–, Lindl.
.. integra, Spreng.
(*O.*——, Nutt.
(*G. flava*, Lindley.
.. nivea, Spreng.
(*O.*–, Baldw. *G.*–, G & E
.. .. .. virescens, Spreng.
(*O. flava*, L. *P. flava*, Gr
* .. .. .. viridis, Br., *α*. bracteata, (Br.) Reich.
(*O. bracteata*, Muhl.
(*P. bracteata*, Torr.
* .. .. hyperborea, R. Br.
(*O.*–, Wld. *P.*–, Lindl.
.. .. dilatata, Gray.
(*O.*–, Ph. *P.*–, Lindl.
.. rotundifolia, Richards
(*O.*–, Ph. *P.*–, Lindl.
* .. obtusata, Richards.
(*O.*–. Ph. *P.*–, Lindl.
.. .. Hookeri, Torr.
(*O.*–, Wood. *P.*–, Lindl
β. oblongifolia, Paine.
.. .. orbiculata, Torr.
(*O.*–, Ph. *P.*–, Lindl.
.. cristata, R. Br.
(*O.*–, Mx. *P.*–, Lindl.
.. .. ciliaris, R. Br.
(*O.*–, L. *P.*–, Lindl.
.. .. blephariglottis, Hook
(*O.*–, Willd. *P.*–, Lindl
β. holopetala, Gray.
.. .. leucophæa, Gray.
(*O.*——, Nutt.
.. .. .. lacera, R. Br.
(*O.*—, Mx. *P.*—, Gr.
.. .. .. psycodes, Gray.
(*O.*——, L.
.. .. fimbriata, R. Br.
(*P.*——, Lindl.
(*O. grandiflora*, Bigel.
.. .. peramœna, Gray.
GOODYERA
* .. .. repens, R. Br.
.. .. .. pubescens, R. Br.
Menziesii, Lindl.
SPIRANTHES
.. .. latifolia, Torr.
* .. Romanzoviana, Cham
(*cernua*, † in part.
.. .. .. cernua, Richard.
graminea, Lindl.:
α. Walteri, Gray.
(*tortilis*, Willd. ‖
.. .. .. gracilis, Bigel.
simplex, Gray.
LISTERA
* .. cordata, R. Br.
.. australis, Lindl.
.. .. convallarioides, Hook.
ARETHUSA
.. .. .. bulbosa, L.
POGONIA
.. .. .. ophioglossoides, Nutt.
.. .. pendula, Lindl.
.. divaricata, R. Br.
.. verticillata, Nutt.
affinis, C. F. Austin.
CALOPOGON
.. .. .. pulchellus, R. Br.
CALYPSO
* .. borealis, Salisb.
TIPULARIA
.. discolor, Nutt.
BLETIA
aphylla, Nutt.
MICROSTYLIS
* .. .. monophyllos, Lindl.
.. .. .. ophioglossoides, Nutt.
LIPARIS
.. .. .. liliifolia, Richard.
* .. .. Lœselii, Richard.

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MISSOURI BOTANICAL GARDEN

CORALLORHIZA
* .. .. .. innata, R. Br.
.. .. odontorhiza, Nutt.
.. .. multiflora, Nutt.
.. Macræi, Gray.
APLECTRUM
.. .. .. hyemale, Nutt.
CYPRIPEDIUM
.. .. arietinum, R. Br.
.. candidum, Muhl.
.. passerinum, Rich.
.. .. .. parviflorum, Salisb.
.. .. .. pubescens, Willd.
.. .. .. spectabile, Swartz.
.. .. acaule, Ait.
AMARYLLIDACEÆ
AMARYLLIS
.. Atamasco, L.
PANCRATIUM
.. .. rotatum, Ker.
AGAVE
.. .. Virginica, L.
HYPOXYS
.. .. .. erecta, L.
HÆMODORACEÆ
LACNANTHES
.. tinctoria, Ell.
LOPHIOLA
.. aurea, Ker.
ALETRIS
.. .. farinosa, L.
.. aurea, Walt.
BROMELIACEÆ.
TILLANDSIA
.. usneoides, L.
IRIDACEÆ.
IRIS
.. .. .. versicolor, L.
.. Virginica, L.
.. cuprea, Pursh.
.. verna, L.
.. cristata, Ait.
.. lacustris, Nutt.
PARDANTHUS
.. Chinensis, Ker.
SISYRINCHIUM
* Bermudiana, L.
.. .. .. β. anceps, (Cav.)
.. .. .. γ.mucronatum,(Mx)
DIOSCOREACEÆ.
DIOSCOREA
.. .. villosa, L.
SMILACEÆ.
SMILAX
.. Walteri, Pursh.
.. .. rotundifolia, L.
.. .. β.quadrangularis,Gr
.. .. glauca, Walt.
sarsaparilla, L.
.. .. tamnoides, L.
.. .. .. hispida, Muhl.
.. .. Pseudo-China, L.
.. lanceolata, L.
.. laurifolia, L.
.. .. .. herbacea, L.
(*Coprosmanthus* —,
Kunth. ||
.. β.pulverulenta,(Mx)
.. γ.peduncularis,(Ml.)
(*C.*——, Kunth. ||
lasioneuron, Hook.
.. tamnifolia, Michx.
(*C.*——, Kunth. ||
LILIACEÆ.
TRILLIUM
.. .. sessile, L.
.. recurvatum, Beck.
.. .. .. grandiflorum,Salisb.
.. .. .. erectum, L.
.. .. .. β. album, Pursh.
.. .. γ. declinatum, Gray.
.. .. cernuum, L.
β. atrorubens,Wood.
.. stylosum, Nutt.
.. nivale, Riddell.
.. .. erythrocarpum, Mx.
MEDEOLA
.. .. Virginica, L.
MELANTHIUM
.. .. Virginicum, L.
ZYGADENUS
.. glaberrimus, Michx.
.. .. glaucus, Nutt.
.. leimanthoides,Gray.
STENANTHIUM
.. .. angustifolium,Gray.
(*Veratrum*–,Pursh.ʒ
VERATRUM
.. .. viride, Ait.
.. parviflorum, Michx.
.. Woodii, Robbins.
AMIANTHIUM
.. muscætoxicum, Gr.
XEROPHYLLUM
.. asphodeloides, Nutt.

HELONIAS
.. bullata, L.
CHAMÆLIRIUM
.. .. luteum, Gray.
TOFIELDIA
* palustris, Hudson.
.. .. .. glutinosa, Willd.
.. pubens, Ait.
UVULARIA
.. .. .. grandiflora, Smith.
.. .. perfoliata, L.
.. flava, Smith.
.. .. .. sessilifolia, L.
.. puberula, Michx.
PROSARTES
.. .. lanuginosa, Don.
STREPTOPUS
* .. amplexifolius, DC.
.. .. roseus, Michx.
CLINTONIA
.. .. borealis, Raf.
.. umbellata, Torr.
CONVALLARIA
* .. majalis, L.
SMILACINA
.. .. .. racemosa, Desf.
* .. .. stellata, Desf.
.. trifolia, Desf.
bifolia, Ker. :
(*Majanthemum*——,
DC. * ʒ
.. .. .. *a*. Canadensis,Gray.
POLYGONATUM
.. .. .. biflorum, Ell.
.. .. giganteum,Dietrich.
(*biflorum, v.*——, ʒ
latifolium, Desf.
(*biflorum, v.*——, ʒ
ASPARAGUS
* .. .. officinalis, L.
LILIUM
.. .. .. Philadelphicum, L.
.. Catesbæi, Walt.
.. .. .. Canadense, L.
.. .. .. superbum, L.
ERYTHRONIUM
.. .. .. Americanum,Smith.
.. albidum, Nutt.
w propullans, Gray.
ORNITHOGALUM
* umbellatum, L.
SCILLA
.. Fraseri, Gray.
(*esculenta*, Ker. ʒ
ALLIUM
.. .. .. tricoccum, Ait.
.. .. cernuum, Roth.
.. stellatum, Nutt.
(*cernuum, v.*——, ʒ
* .. Schœnoprasum, L.
* .. vineale, L.
.. .. .. Canadense, Kalm.
w mutabile, Michx.
w reticulatum, Sims.
.. .. striatum, Jacq.
MUSCARI
* botryoides, Mill.
* .. racemosum, Mill.
HEMEROCALLIS
* .. .. fulva, L.
YUCCA
.. filamentosa, L.
w angustifolia, Pursh.
NARTHECIUM
ossifragum, Huds. :
a.Americanum,Gray
JUNCACEÆ.
LUZULA
* .. .. pilosa, Willd.
parviflora, Desv. :
.. *a*. melanocarpa, Gr.
* .. .. .. campestris, DC.
β. bulbosa, Wood.
* arcuata, Meyer.
* spicata, Desv.
JUNCUS
* .. .. .. effusus, L.
* β.conglomeratus,(L)
* .. filiformis, L.
Smithii, Engelm.
* .. .. Balticus, Dethard.
.. setaceus, Rostk.
.. Rœmerianus,Scheele
(*maritimus*,†||nonSm
* maritimus, Sm.
* .. stygius, L.
* trifidus, L.
.. .. marginatus, Rostk.
.. β. paucicapitatus,E.
.. .. γ.biflorus,(Ell.)Eng.
.. repens, Michx.
(*Cephaloxys flabellata*, Desv. ||
* .. .. bufonius, L.
β.fasciculatus, Eng.

* .. .. Gerardi, Loisel.
(*bulbosus*,L.,*v.*–,Gr.†
* .. .. .. tenuis, Willd.
.. β.secundus, Engelm.
.. dichotomus, Ell.
.. Greenii, Oakes & Tk.
.. .. Vaseyi, Engelm.
.. pelocarpus,E.Meyer
(*Conradi*, Tuck. †||
β. subtilis, Engelm.
* .. articulatus, L.
(*lamprocarpus*, Ehr*
β. obtusatus, Eng.
alpinus, Villars. :
* .. .. *a*. insignis, Fries.
(*articulatus, v.*—, ʒ
(*articulatus. v. pelocarpus*. Gray. †
militaris, Bigel.
acuminatus,Michx. :
.. *a*. debilis, (Gr.) Eng.
.. β. robustus,Engelm.
.. .. γ. legitimus,Engelm.
(*acuminatus*, Michx.
(*paradoxus*, E. Mey.
(*fraternus*, Kunth.
.. .. nodosus, L.
.. β.megacephalus,Tor
.. brachycarpus, Eng.
.. β.? Wolfii, Wood.
scirpoides, Lam. :
a.macrostemon,Eng.
.. β. echinatus, Eng.
.. γ.polycephalus,Eng.
Canadensis, J.Gay. :
.. .. .. *a*.longicaudatus,Eng
(*paradoxus*, † || non
E. Meyer.
.. .. β.subcaudatus,Eng.
.. γ.brachycephalus, E.
.. δ. coarctatus, Eng.
(*acuminatus*,†nonMx
asper, Engelm.
PONTEDEREACEÆ
PONTEDERIA
.. .. .. cordata, L.
β.angustifolia,Gray.
HETERANTHERA
.. .. reniformis,R. & Pav.
.. limosa, Vahl.
SCHOLLERA
.. .. .. graminea, Willd.
COMMELYNACEÆ
COMMELYNA
.. .. erecta, L.
.. .. Virginica, L.
.. Cayennensis, Rich.
(*agraria*,Kunth. †
TRADESCANTIA
.. .. Virginica, L.
.. pilosa, Lehm.
.. rosea, Vent.
XYRIDACEÆ.
MAYACA
.. Michauxii,S.&Endl.
XYRIS
.. .. flexuosa,Muhl. Chap
(*bulbosa*, Kunth. †
β. pusilla, Gray.
.. torta, Smith.
.. Caroliniana, Walt.
.. fimbriata, Ell.
ERIOCAULONACEÆ
ERIOCAULON
.. decangulare, L.
.. gnaphalodes,Michx.
* .. .. septangulare ,With.
PÆPALANTHUS
.. flavidus, Kunth.
LACHNOCAULON
.. Michauxii, Kunth.
CYPERACEÆ.
CYPERUS
* .. .. flavescens, L.
.. .. .. diandrus, Torr.
β.castaneus, (Big.)
γ.pauciflorus, Wood.
.. Nuttallii, Torr.
β.minimus, (Nutt.)
.. flavicomus, Michx.
.. .. erythrorhizos, Muhl.
.. .. .. inflexus, Muhl.
.. acuminatus, Torr.
.. virens, Michx.
.. compressus, L.
* fuscus, L.
.. dentatus, Torr.
.. rotundus,L.,*a*.Hydra
.. .. .. phymatodes, Muhl.
.. .. .. strigosus, L.
.. .. Michauxianus,Schul
.. Engelmanni, Steud.
.. .. Schweinitzii, Torr.
.. Grayii, Torr.
.. filiculmis, Vahl.

.. Lancastriensis,
T. C. Porter.
.. .. ovularis, Torr.
.. retrofractus, Torr.
KYLLINGIA
.. .. pumila, Michx.
DULICHIUM
.. .. .. spathaceum, Pers.
FUIRENA
.. squarrosa, Michx.
β. pumila, Torr.
LIPOCARPHA
maculata, Torr.
HEMICARPHA
.. .. subsquarrosa, Nees.
.. β.Drummondii,(Nees
ELEOCHARIS
Robbinsii, Oakes.
.. equisetoides, Torr.
.. .. quadrangulata,R.Br
.. tuberculosa, R.Br.
.. simplex, Torr.
.. .. .. obtusa, Shultes.
.. .. olivacea, Torr.
* ovata, R. Br.
* .. .. .. palustris, R. Br.
β.glaucescens, (Wld.
γ. calva, (Torr.)
.. .. compressa, Sulliv.
.. rostellata, Torr.
.. .. intermedia,Schultes.
microcarpa, Torr. :
.. *a*. filiculmis, Torr.
.. .. .. tenuis, Schultes.
.. melanocarpa, Torr.
.. tricostata, Torr.
* .. .. .. acicularis, R. Br.
.. .. pygmæa, Torr.
(*pusillus*,(Vahl.) ʒ
SCIRPUS
* .. .. pauciflorus, Lightf.
(*Eleocharis*–,Link.*
(*Bæothryon*, Ehrh.*
* .. .. cæspitosus, L.
(*Eleocharis*–,Link.*
Clintonii, Gray.
.. planifolius, Muhl.
.. subterminalis,Torr.
β.terrestris, Paine.
* .. .. .. pungens, Vahl.
.. Olneyi, Gray.
Torreyi, Olney.
Canbyi, Gray.
(*leptolepis*,Chap.†||ʒ
.. .. .. validus, Vahl.
(*lacustris*, †|| non L.
.. .. debilis, Pursh.
.. Smithii, Gray.
.. supinus,L.,*a*.Hallii.
* .. .. maritimus, L.
β.macrostachyos,Mx
.. .. .. fluviatilis, Gray.
* .. sylvaticus, L.
microcarpus, Presl.
.. .. atrovirens, Muhl.
(*sylvaticus,v.*—, Gr.†
.. .. polyphyllus,Vahl.
.. .. lineatus, Michx.
Eriophorum, Mx. :
.. *a*.cyperinus,(Kth)Gr
.. .. .. β. laxus, Gray.
ERIOPHORUM
* .. alpinum, L.
* .. vaginatum, L.
* .. russeolum, Fries.
.. .. .. Virginicum, L.
β. album, Gray.
(*v. confertissimum*, ʒ
* .. .. .. polystachyon, L.
.. .. gracile,Koch.,*a*.paucinervium, Eng.
FIMBRISTYLIS
.. .. spadicea,Vahl.*a*.castanea, Gray.
.. .. laxa, Vahl.
.. .. autumnalis,Rœm&S
(*Trichelostylis*——,
Chapm. ||ʒ
.. .. capillaris, Gray.
(*Trichelostylis*——,ʒ
(*Isolepis*——,R.&S.||
congesta, Torr.
(*argentea*, Vahl. ʒ
TRICHELOSTYLIS
borealis, Wood.
DICHROMENA
.. leucocephala, Michx
.. latifolia, Baldwin.
RHYNCHOSPORA
scirpoides, Gray.
(*Psilocarya*-,Tor.†||ʒ
nitens, Gray.
.. plumosa, Ell.
.. cymosa, Nutt.
.. Torreyana, Gray.

.. inexpansa,Vahl.
* .. fusca, Rœm.&Schultes.
.. gracilenta, Gray.
pallida, M. A. Curtis.
* .. .. .. alba, Vahl.
.. .. capillacea, Torr.
Knieskernii, Carey.
.. .. glomerata, Vahl.
.. β. paniculata, (Gray.)
.. cephalantha, Torr.
.. .. corniculata, Gray.
(*Ceratoschœnus*———,
Nees. † ||
(*C. longirostris*, (Ell.)ʒ
.. macrostachya, Torr.
(*C.*———, Gray. †||
CLADIUM
.. .. .. mariscoides, Torr.
SCLERIA
.. .. triglomerata, Michx.
.. oligantha, Ell.
(*leptoculmis*, Wood. ʒ
.. reticularis, Michx.
.. laxa. Torr.
.. .. pauciflora, Muhl.
β. glabra, Chapm.
.. .. verticillata, Muhl.
CAREX
.. .. adusta, Boott. non † 42
β. argyrantha, (Tuck.)
.. æstivalis, Curtis. 81
.. alata, Torr. 45
.. alopecoidea,Tuck. 19
* .. alpina, Swartz. 63
.. .. aperta, Boott. 50
* .. aquatilis, Wahl. 48
.. arctata, Boott. 106
* .. arenaria, L. 12ª
.. arida, Schw.&Torr. 38
* .. .. aristata, R.Br. 124
(*atherodes*, Spreng.*
* .. atrata, L. 62
.. aurea, Nutt. 65
.. Backii, Boott. 9
.. Barrattii, Schw.&T.57
(*flacca*, †|| non Schreb.
.. Bebbii, Olney. 44ª
.. Bellavilla, Dewey.132ª
.. borealis, Olney. 49ª
.. .. .. bromoides, Schk. 10
.. bullata, Schk. 147
* .. .. .. Buxbaumii, Wahl. 61
* .. canescens,L.in part. 31
* .. β. vitilis, (Fr.) Carey.
(*v. alpicola*, Wahl.*
* .. capillaris, L. 109
* capitata, L. 3
.. Careyana, Torr. 85
.. cephaloidea,Dew.Bt.22
.. .. .. cephalophora,Muhl. 23
β. angustifolia, Boott.
* .. .. chordorhiza, Ehrh. 27
.. .. .. comosa, Boott. 126
.. conjuncta, Boott. 18
(*vulpina*, † non L.
.. .. .. conoidea, Schk. 75
.. .. Crawei, Dewey. 71
.. .. .. crinita, Lam. 55
β. morbida, Carey.
.. cristata, Schw. 41
(*lagopodioides, v.*—, †
.. β. mirabilis, (Dew.)Bt.
(*festucacea, v.*——, †
.. crus-corvi,Shuttlew. 16
.. .. Davisii,Schw.&Torr.78
.. .. debilis, Michx. 108
.. β. pubera, Carey.
.. .. decomposita, Muhl. 14
.. Deweyana, Schw. 33
(*Deweyi*, Schk. ʒ
.. .. digitalis, Willd. 88
* .. .. disticha, Huds. 12
.. eburnea, Boott. 92
.. .. .. Emmonsii, Dewey. 96
(*N.-Angliæ, v.*——, †
(*lucorum*,Willd,.*v.*—, ||
exilis, Dewey. 34
β. androgyna, ʒ
* .. extensa, Good. 113
* .. .. .. filiformis, L. 116
.. flaccosperma, Dew. 77
(*xanthosperma*, Dew. ʒ
(*grisea, v. mutica*, † ||
* .. flava, L. 114
.. flexilis, Rudge. 110
.. fœnea, Willd. 43
β. ? ferruginea, Boott.
.. γ. ? sabulonum, Boott.
(*adusta*, † non Boott.
.. .. folliculata, L. 134
.. formosa, Dewey. 79
.. Fraseriana,Sims. 6
* fulva, Good. 112
(*distans*, L., *v.*—,Hk.*
.. gigantea, Rudge. 140

glabra, Boott. 107
.. glaucescens, Ell. 57ª
glaucodea,Tuck. 71ª
.. .. gracillima, Schw. 80
.. .. .. granularis, Muhl. 72
β. recta, ʒ
.. Grayii, Carey. 131
.. .. grisea, Wahl. 76
.. gynandra,Schw., Bt.56
(*crinita, v.*———,ʒ
* .. .. gynocrates,Wormsk. 1
.. Haleana, Olney. 72ª
.. .. Hitchcockiana,Dew. 91
.. Houghtonii, Torr. 121
.. .. .. hystricina, Willd. 128
β. Cooleyi, (Dew.)
.. .. .. intumescens,Rudg.130
* .. irrigua, Smith. 60
.. Knieskernii,Dew. 105
* lævigata, Smith. 111
.. .. .. lagopodioides,Schk. 40
.. .. lanuginosa,Michx. 117
laxiflora, Lam. : 89
.. .. *a*. striatula,(Mx.)Boott
.. β.styloflexa,(Dew.)Bt.
.. .. γ.plantaginea,(Schk)B
(*v. patulifolia*, Dew. †ʒ
.. δ.intermedia, Boott.
.. ε. blanda,(Dew.)Boott.
(*v. striatula*, † non Bt.
.. ς. latifolia, Boott.
.. lenticularis,Michx. 52
.. Liddonii, Boott. 31ª
* .. .. limosa, L. 58
* limula, Fries.? 47ª
* .. .. livida, Willd. 66
.. .. longirostris, Torr. 151
lupuliformis,Sartw.133
(*lupulina, v. polystachya*, Schw. & Torr. †
.. .. .. lupulina, Muhl. 132
.. β. pedunculata, ʒ
γ. androgyna, ʒ
.. Macounii, Dew. 132ᵇ
* .. maritima, Vahl. 54
.. Meadii, Dewey. 69
(*panicea*, † in part.
.. .. miliacea, Muhl. 102
Mitchelliana,Curtis56ᵇ
.. .. monile, Tuckerm. 144
.. .. .. Muhlenbergii,Schk. 24
β. enervis, Boott.
* muricata, L. 20
.. nigro-marginata,
Schwein. 96ª
(*lucorum*, Willd.,*v.*—,||
* Norvegica, Schk. 32
.. .. Novæ-Angliæ,Schw.95
* .. .. Œderi, Ehrh. 115
.. .. .. oligocarpa, Schk. 90
.. oligosperma, Mx. 148
Olneyi, Boott. 145
* .. .. pallescens, L. 74
* β. undulata, (Kunze.)
* paludosa, Good. 123
* .. panicea, L. 68
* .. pauciflora, Lightfoot.4
.. pedunculata,Muhl. 93
.. .. .. Pennsylvanica,Lam.97
.. .. .. plantaginea, Lam. 84
.. .. platyphylla, Carey. 86
.. polymorpha, Muhl.119
.. .. .. polytrichoides, Muhl.5
Porteri, Olney. 56ª
* præcox, Jacq. 99
* .. Pseudo-Cyperus,L.127
.. .. .. pubescens, Muhl. 101
pulla, Good. : 150
.. *a*. ? miliaris, (Michx.)
.. Purshii, Olney. 128ª
* rariflora, Smith. 59
.. retrocurva, Dewey. 87
.. .. retroflexa, Muhl. 26
.. retrorsa, Schw. 139
.. β. Hartii, (Dewey.)
γ. ? lupulus, ʒ
.. .. Richardsonii,R.Br.100
rigida, Good.,*a*.Bigelovii, (Torr.) 45
(*Washingtonia*,Dew.ʒ
* .. .. .. riparia, Curtis. 122
(*lacustris*, Willd.†
.. .. .. rosea, Schk. 25
β. minor, Boott.
.. γ. radiata, Dewey.
rostrata, Michx. 135
* rotundata, Wahl.? 149
* .. salina, Wahl. 53
.. .. scabrata, Schw. 103
.. Schweinitzii, Dew. 141
* .. scirpoidea, Michx. 2
.. .. scoparia, Schk. 39
.. β. minor, Boott.
.. Shortiana, Dewey. 64
.. .. siccata, Dewey. 11

E.C.I.V. silicea, Olney. 42a
.. Smithii, Porter. 81a
.. .. ..sparganioides,Muhl21
β. minor, Boott.
γ. ramea, §
.. .. squarrosa, L. 137
* .. .. stellulata, L. 36
.. .. .. β. scirpoides, (Schk.)
.. γ. angustata, Carey.
.. .. stenolepis, Torr. 138
.. .. sterilis, Willd. 35
(*stellulata, v.*—, †‖
.. .. Steudelii, Kunth. 8
.. .. .. stipata, Muhl. 17
straminea, Schk.: 44
α. typica, Boott.
.. .. β. tenera,(Dew.)Boott
(*festucacea,v.*—† part
γ. aperta, Boott.
.. .. δ. festucacea,(Schk)Bt
ε. hyalina, Boott.
.. ς. Meadii, Boott.
η. moniliformis, §
.. striata, Michx. 120
.. .. .. stricta, Lam. 51
β. strictior, (Dewey.)
.. subulata, Michx. 136
Sullivantii,Boott. 104
.. sychnocephala,Car.37
* .. tenella, Schk. 28
.. .. .. tentaculata, Muhl.129
β. gracilis, Boott.
γ. altior, Boott.
* .. tenuiflora, Wahl. 30
* .. .. teretiuscula, Good. 13
* .. .. β. major, Koch.
(*prairea*, Dewey. §
.. .. .. tetanica, Schk. 70
β. Woodii, (Dewey.)
Torreyi, Tuckerm. 73
.. .. torta, Boott. 49
β. composita, Porter.
.. .. .. triceps, Michx. 83
(*hirsuta*, Willd.§
.. .. .. trichocarpa,Muhl. 125
.. β. imberbis, Carey.
γ. turbinata, §
.. trisperma, Dewey. 29
.. .. Tuckermani,Boott146
(*cylindrica*,†nonSchw
.. .. .. umbellata, Schk. 94
.. .. utriculata, Boott. 142
(*ampullacea*, Good.,
v.——, Carey.†
* .. vaginata, Tausch. 67
.. .. .. varia, Muhl. 98
(*Pennsylvanica, v.*
Muhlenbergii,T&G‖
.. .. Vaseyi, Dewey. 143
.. vestita, Willd. 118
.. .. .. virescens, Muhl. 82
* .. .. vulgaris, Fries. 47
.. .. .. vulpinoidea,Michx15
β. setacea, (Dewey.)
γ. scabrior, (Sartw.)
.. .. Willdenovii, Schk. 7
xerocarpa,Wright.51a

GRAMINEÆ.

LEERSIA
.. .. Virginica, Willd.
* .. .. .. oryzoides, Swartz.
.. .. lenticularis,Michx.
ZIZANIA
.. .. .. aquatica, L.
.. miliacea, Michx.
ALOPECURUS
* .. .. pratensis, L.
* .. .. geniculatus, L.
.. .. aristulatus, Michx.
PHLEUM
* .. .. .. pratense, L.
* alpinum, L.
CRYPSIS
* schœnoides, Lam.
VILFA
(*SPOROBOLUS*,§)
.. .. aspera, Beauv.
(*S. asper*, Kunth. §
.. .. .. vaginæflora, Torr.
cuspidata, Torr.
.. Virginica, Beauv.
(*S. Virginicus*,Kth. ‖§
SPOROBOLUS
.. junceus, Kunth.
.. .. heterolepis, Gray.
.. .. cryptandrus, Gray.
compressus, Kunth.
serotinus, Gray.
AGROSTIS
.. elata, Trin.
.. .. .. perennans, Tuckerm.
(*scabra, v.*—,Wood. §
.. .. .. scabra, Willd.
β. montana, Tuckerm.
γ. oreophila, (Trin.)
* canina, L.
β. alpina, Oakes.
.. γ. rupestris, (All.)
* .. .. .. vulgaris, With.
* .. .. .. alba, L.
POLYPOGON
* Monspeliensis, Desf.
CINNA
.. .. .. arundinacea, L.
* .. .. β. pendula,(Trin.)Gr.
(*Blyttia suaveolens*,Fr*
MUHLENBERGIA
.. sobolifera, Trin.
.. .. glomerata, Trin:
.. .. .. Mexicana, Trin.
β.filiformis, (Muhl.)
.. γ. purpurea, Wood.
.. .. .. sylvatica, Torr. & Gr.
β. vulpina, Wood.
.. .. Willdenovii, Trin.
.. .. diffusa, Scheber.
.. capillaris, Kunth.
BRACHYELYTRUM
.. .. .. aristatum, Beauv.
(*Muhlenbergia*–,Pers§
β. Engelmanni, Gray.
CALAMAGROSTIS
.. .. Canadensis, Beauv.
* .. Langsdorffii, Trin.
* .. stricta, Trin.
* .. Lapponica, Trin.
confinis, Nutt.
.. Nuttalliana, Steud.
(*coarctata*, Torr. †‖
purpurascens, R.Br.
Porteri, Gray.
Pickeringii, Gray.
brevipilis, Gray.
.. longifolia, Hook.
* .. .. .. arenaria, Roth.
(*Psamma*—, R. & S.*
ORYZOPSIS
.. melanocarpa, Muhl.
.. asperifolia, Michx.
.. .. Canadensis, Torr.
STIPA
.. Richardsonii, Link.
.. .. avenacea, L.
.. .. spartea, Trin.
(*juncea*, Pursh.§
ARISTIDA
.. ramosissima, Engelm.
.. β. uniaristata, Gray.
.. .. dichotoma, Michx.
.. .. gracilis, Ell.
.. β. depauperata,Gray.
.. .. stricta, Michx.
.. .. oligantha, Michx.
.. .. purpurascens, Poir.
.. lanata, Poir.
.. tuberculosa, Nutt.
SPARTINA
.. .. cynosuroides, Willd.
.. polystachya, Willd.
* .. .. juncea, Willd.
(*Dactylis patens*,Ait.*
* stricta, Roth.
.. .. β. glabra, (Muhl.) Gr.
.. γ. alterniflora, (Lois.)
CTENIUM
.. Americanum,Spreng.
(*aromaticum*, (Ell.) §
BOUTELOUA
.. oligostachya, Torr.
.. hirsuta, Lagasca.
.. .. curtipendula, Gray.
.. β. aristosa, Gray.
GYMNOPOGON
.. racemosus, Beauv.
.. brevifolius, Trin.
(*racemosus, v. filiformis*, Chapm. ‖
CYNODON
* .. .. Dactylon,Pers.
DACTYLOCTENIUM
* .. .. Ægyptiacum, Willd.
ELEUSINE
.. .. Indica, Gærtn.
LEPTOCHLOA
.. .. mucronata, Kunth.
.. .. fascicularis, Gray.
(*polystachya*, Kunth.‖
TRICUSPIS
.. .. seslerioides, Torr.
β. flexuosa, Wood.
.. .. purpurea, Gray.
(*Triplasis*—,Chapm.‖
GRAPHEPHORUM
.. melicoides, Beauv.
β. major, Gray.
(*Dupontia Cooleyi*,G†
DIARRHENA
.. Americana, Beauv.
DACTYLIS
* .. .. .. glomerata, L.
KŒLERIA
* .. cristata, Pers.
β. gracilis.
EATONIA
.. .. .. obtusata, Gray.
.. .. .. Pennsylvanica, Gray.
.. β. major, Torr.
MELICA
mutica, Walt.:
.. α. glabra,(Pursh.)Gr.
.. β. diffusa,(Pursh.)Gr.
GLYCERIA
.. .. Canadensis, Trin.
obtusa, Trin.
.. elongata, Trin.
.. .. .. nervata, Trin.
.. pallida, Trin.
* .. aquatica, Smith.
* .. .. .. fluitans, R. Br.
acutiflora, Torr.
* .. maritima, Wahl.
* distans, Wahl.
BRIZOPYRUM
.. spicatum, Hook.
POA
* .. .. .. annua, L.
* .. .. .. compressa, L.
* .. alpina, L.
* laxa, Hænke.
* .. cæsia, Smith.
(*nemoralis*, † non L.
.. β. strictior, Gray.
* .. .. .. serotina, Ehrh.
* .. .. .. pratensis, L.
* trivialis, L.
.. .. sylvestris, Gray.
.. debilis, Torr.
.. alsodes, Gray.
.. flexuosa, Muhl.
.. .. brevifolia, Muhl.
ERAGROSTIS
.. .. .. reptans, Nees.
* poæoides, Beauv.
* .. .. β. megastachya,(Luk
* .. .. pilosa, Beauv.
.. Frankii, Meyer.
(*erythrogona*, Nees. §
.. Purshii, Schrader.
.. .. tenuis, Gray.
.. .. capillaris, Nees.
.. nitida, Chapm.
.. pectinacea, Gray.
β. spectabilis, Gray.
BRIZA
* maxima, L.
* media, L.
FESTUCA
* .. Myurus, L.
.. .. .. tenella, Willd.
* .. ovina, L.
* β. vivipara.
* .. γ. duriuscula, (L.)
* δ. rubra, (L.)
* .. elatior, L.
* β.pratensis,(Huds)Gr
.. .. .. nutans, Willd.
β. palustris, Wood.
BROMUS
* .. .. .. secalinus, L.
* .. racemosus, L.
* .. mollis, L.
.. .. Kalmii, Gray.
.. .. ciliatus, L.
.. .. β. purgans, (L.)
* asper, L.
* sterilis, L.
UNIOLA
.. paniculata, L.
.. .. latifolia, Michx.
.. gracilis, Michx.
PHRAGMITES
* .. .. .. communis, Trin.
ARUNDINARIA
macrosperma, Michx.
(*gigantea*, Chapm. ‖
.. .. tecta, Muhl.
(*macr.. v. tecta*, §
LEPTURUS
.. paniculatus, Nutt.
LOLIUM
* .. perenne, L.
* .. temulentum, L.
.. β.Canadense,(Michx)
TRITICUM
repens, L. :
* .. .. α. nemorale, Anderss.
* β. intermedium,Fries.
dasystachyum, Gray.
(*repens, v.*—,Hook.§
* .. violaceum, Hornem.
* .. .. caninum, L.
HORDEUM
.. .. jubatum, L.
* .. .. pratense, Huds.
(*pusillum*, Nutt. †§
ELYMUS
.. .. .. Virginicus, L.
.. .. Canadensis, L.
.. β. glaucifolius,(Muhl.
* Sibiricus, L.
.. .. .. striatus, Willd.
.. β. villosus, (Muhl.)
w Sitanion, Schult.
.. mollis, Trin.
GYMNOSTICHUM
.. .. .. Hystrix, Schreber.
(*Elymus*——, L. §
DANTHONIA
.. .. .. spicata, Beauv.
compressa, Austin.
.. sericea, Nutt.
AV[illegible]
.. striata. [illegible]
(*Trise*[illegible] *as*–
[illegible] §
[illegible] Porter.
[illegible]SETUM
[illegible]picatum,Beauv. :
.. α. molle, Gray.
.. .. palustre, Torr.
AIRA
* .. .. flexuosa, L.
* .. .. cæspitosa, L.
* .. præcox. L.
(*Avena*——,Beauv.†§
* caryophyllea, L.
(*Avena*——, L. §
* atropurpurea, Wahl.
ARRHENATHERUM
* .. avenaceum, Beauv.
(*elatius*, Mert.& Kh.*
(*Avena elatior*, L. *§
HOLCUS
* .. lanatus, L.
HIEROCHLOA
* .. .. borealis, Rœm.& Sch.
* alpina, Rœm. & Sch.
ANTHOXANTHUM
* .. .. odoratum, L.
PHALARIS
* .. .. Canariensis, L.
* .. .. arundinacea, L.
MILIUM
* .. .. effusum, L.
AMPHICARPUM
.. Purshii, Kunth.
PASPALUM
.. .. fluitans, Kunth.
.. Walterianum, Schult.
.. .. setaceum, Michx.
(*ciliatifolium*, Mx. ‖
Floridanum, Michx.
.. .. læve, Michx.
β. altissimum, Wood.
.. distichum, L.
.. Digitaria, Poir.
PANICUM
.. .. filiforme, L.
(*Paspalum*—,Schw. §
* .. .. .. glabrum, Gaudin.
(*Paspalum*—,Wood.§
* .. .. sanguinale, L.
(*Paspalum*—, Lam.§
.. .. anceps, Michx.
.. .. agrostoides, Spreng.
.. .. proliferum, Lam.
.. β. geniculatum,Wood.
.. .. .. capillare, L.
.. autumnale, Bosc.
(*divergens*, Muhl. ‖
.. .. .. virgatum, L.
β. obtusum, Wood.
.. amarum, Ell.
.. .. .. latifolium, L.
.. .. clandestinum, L.
.. β.pedunculatum,(Tor
.. .. microcarpon, Muhl.
.. .. xanthophysum, Gray.
.. viscidum, Ell.
.. .. pauciflorum, Ell. ?
dichotomum, L. :
.. .. .. α. nodiflorum, (Lam.)
.. β. lanuginosum,(Ell.)
.. γ. barbulatum, (Mx.)
.. δ. nitidum, (Lam.)
ε. pubescens, (Lam.)
ς. laxiflorum, (Lam.)
η. sphærocarpon,(Ell
.. .. .. depauperatum, Muhl.
β. involutum, (Torr.)
.. verrucosum, Muhl.
* .. .. .. Crus-galli, L.
(*Oplismenus*–,Wood.§
.. β. hispidum, (Muhl.)
γ. muticum, Wood.
SETARIA
* .. .. verticillata, Beauv.
* .. .. .. glauca, Beauv.
* .. .. .. viridis, Beauv.
* .. .. Italica, Kunth.
* Germanica, Beauv.§
CENCHRUS
.. .. tribuloides, L.
TRIPSACUM
.. .. dactyloides, L.
.. β.monostachyum,(Wd
ROTTBŒLLIA
.. rugosa, Nutt.
ERIANTHUS
.. .. alopecuroides, Ell.
.. brevibarbis, Michx.
ANDROPOGON
.. .. .. furcatus, Muhl.
.. .. .. scoparius, Michx.
.. argenteus, Ell.
(*Elliottii*, Chapm. ‖
.. .. Virginicus, L.
.. macrourus, Michx.
SORGHUM
.. .. .. nutans, Gray.
.. avenaceum, Chapm.

———:o:———

EQUISETACEÆ.

EQUISETUM
* Telmateia, Ehrh.
(*eburneum*, Schreb. †
(*fluviatile*, Smith.*
(*maximum*, Lam. *
* .. .. .. arvense, L.
β. serotinum, Meyer.
* .. pratense, Ehrh.
* .. sylvaticum, L.
* .. palustre, L.
* .. littorale, Kuhlew. ?
* .. .. limosum, L.
.. lævigatum, Braun.
.. robustum, Braun.
.. β. affine, Engelm.
* .. .. .. hyemale, L.
* .. .. variegatum, Schleich.
* .. scirpoides, Michx.

FILICES.

POLYPODIUM
* .. .. .. vulgare, L.
.. .. incanum, Swartz.
ADIANTUM
.. .. .. pedatum, L.
w Capillus-Veneris, L.
PTERIS
* .. .. .. aquilina, L.
β. caudata, (L.)
γ. lanuginosa, Hook.
CHEILANTHES
.. .. vestita, Swartz.
.. tomentosa, Link.
.. lanuginosa, Nutt.
PELLÆA
.. gracilis, Hook.
(*Allosorus*—, Presl. †
(*Pteris*—, Michx. §
.. .. .. atropurpurea, Link.
(*Allosorus*—,Kunze.†
(*Pteris*———, L. §
ALLOSORUS
acrostichoides, Spr.
WOODWARDIA
.. .. Virginica, Smith.
.. angustifolia, Smith.
ASPLENIUM
.. .. pinnatifidum, Nutt.
(*Camptosorus*–,Wood§
ebenoides, Scott.
(*C. pinnatifidus,v.*—,§
* .. .. .. Trichomanes, L.
* .. viride, Hudson.
.. .. .. ebeneum, Aiton.
.. montanum, Willd.
* .. Ruta-muraria, L.
.. .. .. angustifolium, Mx.
.. .. .. thelypteroides, Mx.
* .. .. .. Filix-fœmina, Bernh.
.. .. .. β. Michauxii, Mett.
SCOLOPENDRIUM
* .. vulgare, Smith.
(*officinarum*, Swz. †§
CAMPTOSORUS
.. .. .. rhizophyllus, Link.
PHEGOPTERIS
* .. .. polypodioides, Fée.
(*Polypodium Phegopteris*, L. *†§
.. .. .. hexagonoptera, Fée.
(*Polypodium*-,Mx.†‖§
* .. .. Dryopteris, Fée.
(*Polypodium*—,L.*†§
ASPIDIUM
* .. .. .. Thelypteris, Swz.
(*Nephrodium*–,Desv.*
.. .. Noveboracense, Swz.
.. fragrans, Swz.
* .. spinulosum, Swz.
(*Nephrodium*–,Desv.*
.. .. .. β.intermedium,(Wld)
* .. γ. dilatatum, (Swz.)
* δ. dumetorum, (Sm.)
* .. ε. Boottii, (Tuckerm.)
* .. cristatum, Swz.
(*Nephrodium*–,Rich.*
.. β.Clintonianum,Eaton
.. .. .. Goldianum, Hook.
* .. Filix-mas, Swz.
(*Nephrodium*–,Rich.*
.. .. .. marginale, Swz.
.. .. .. acrostichoides, Swz.
.. β. incisum, Gray.
* .. Lonchitis, Swz.
aculeatum,Swz. :
* .. α. Braunii, Koch.
CYSTOPTERIS
.. .. .. bulbifera, Bernh.
* .. .. .. fragilis, Bernh.
* β. dentata, (Hook.)
* .. montana, Bernh.
STRUTHIOPTERIS
* .. .. Germanica, Willd.
ONOCLEA
.. .. .. sensibilis, L.
β. obtusilobata, Torr.
WOODSIA
.. .. obtusa, Torr.
* .. .. Ilvensis, R.Br.
* .. hyperborea, R.Br.
* .. glabella, R.Br.
Oregana, Eaton.
DICKSONIA
.. .. .. punctilobula, Kunze.
(*pilosiuscula*, Willd. §
SCHIZÆA
pusilla, Pursh.
LYGODIUM
.. palmatum, Swz.
OSMUNDA
* .. .. .. regalis, L.
.. .. .. Claytoniana, L.
.. .. .. cinnamomea, L.
β. frondosa, Gray.
BOTRYCHIUM
* .. Lunaria, Swz.
* .. simplex, Hitchcock.
* .. lanceolatum, Angstr.
(*simplex*, †
* .. matricariæfolium, A. Braun.
β.subintegrum,Milde.
(*neglectum*, Wood. §
* .. .. .. Virginicum, Swz.
β. gracile, (Pursh.)
.. .. .. lunarioides, Swz.
.. β. obliquum, (Muhl.)
.. γ. dissectum, (Muhl.)
OPHIOGLOSSUM
* .. .. vulgatum, L.
bulbosum, Michx.

LYCOPODIACEÆ.

LYCOPODIUM
.. .. lucidulum, Michx.
* .. .. Selago, L.
* .. inundatum, L.
β. Bigelovii, Tuck.
* .. alpinum, L.
.. alopecuroides, L.
* .. annotinum, L.
β. pungens, Spring.
.. .. dendroideum, Michx.
β. obscurum, (L.)
* .. .. clavatum, L.
.. Carolinianum, L.
* .. .. complanatum, L.
* .. β. sabinæfolium,(Wld
(*Chamæcyparissus*,Br*
SELAGINELLA
* .. selaginoides, Gray.
(*spinulosa*,Braun. *
.. .. .. rupestris, Spring.
.. .. .. apus, Spring.
ISOETES
* .. lacustris, L.
Tuckermani, Braun.
echinospora,Durieu. :
.. α. Braunii, Engelm.
β. muricata, Engelm.
γ. Boottii, Engelm.
saccharata, Engelm.
.. .. riparia, Engelm.
Engelmanni, Braun.
β. gracilis, Engelm.
γ. valida, Engelm.
.. melanopoda, J.Gay.

HYDROPTERIDES

MARSILEA
* quadrifolia, L.
AZOLLA
.. .. Caroliniana, Willd.

———:o:———

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MISSOURI BOTANICAL GARDEN

NORTH AMERICAN PLANTS.

CONTENTS OF FASCICLE I.

COLLECTED AND DISTRIBUTED BY A. H. CURTISS IN 1877.

- Clematis reticulata, Walt.
- Asimina parviflora, Dunal.
  - grandiflora, Dunal.
- Nymphæa flava, Leitner.
- Sarracenia variolaris, Mx.
- Gynandropsis pentaphylla, DC.
- Helianthemum corymbosum, Mx.
- Ascyrum amplexicaule, Mx.
- Hypericum cistifolium, Lam.
  - fasciculatum, Lam.
  - myrtifolium, Lam.
- Arenaria diffusa, Ell.
- Portulaca pilosa, L.
- Sida stipulata, Cav.
- Hibiscus coccineus, Walt.
- Gordonia Lasianthus, L.
- Ximenia Americana, L.
- Ceanothus microphyllus, Mx.
- Polygala Baldwinii, Nutt.
  - cymosa, Walt.
  - grandiflora, Walt.
  - setacea, Mx.
- Lupinus villosus, Willd.
- Crotalaria Purshii, DC.
- Psoralea virgata, Nutt.
  - canescens, Mx.
  - Lupinellus, Mx.
- Petalostemon roseum, Nutt.
  - gracilis, Nutt.
  - corymbosus, Mx.
- Indigofera Caroliniana, Walt
- Glottidium Floridanum, DC.
- Astragalus obcordatus, Ell.
- Æschynomene viscidula, Mx.
- Rhynchosia tomentosa, var. monophylla, T. & G.
  - var. erecta, T. & G.
  - var. volubilis, T. & G.
- Galactia Elliottii, Nutt.
- Baptisia Lecontei, T. & G.
- Cassia obtusifolia, L.
- Schrankia angustata, T. & G.
- Prunus Caroliniana, Ait.
- Cratægus flava, Ait.
- Gaura augustifolia, Mx.
- Œnothera sinuata, L.
- Ludwigia virgata, Mx.
  - linifolia, Poir.
  - alata, Ell.
- Rhexia glabella, Mx.
  - ciliosa, Mx.
  - serrulata, Nutt.
- Piriqueta fulva, Chapm.
- Eryngium Mettaueri, Wood.
  - aromaticum, Baldw.
- Tiedemannia teretifolia, DC.
- Heliosciadium letophyllum, DC.
- Leptocaulis divaricatus, DC.
- Cornus stricta, Lam.
- Galium hispidulum, Mx.
- Richardsonia scabra, St. Hill.
- Diodia Virginica, L.
- Chiococca racemosa, Jacq.
- Houstonia rotundifolia, Mx.
- Vernonia augustifolia, Mx.
- Carphephorus corymbosus.
- Liatris elegans, Willd.
  - tenuifolia, Nutt.
  - gracilis, Pursh.
  - paniculata, Willd.
- Eupatorium coronopifolium, Willd.
- Aster squarrosus, Walt.
- Erigeron vernum, T. & G.
- Diplopappus obovatus, T & G
- Solidago brachyphylla, Chap
  - tortifolia, Ell.
- Bigelovia nudata, DC.
- Heterotheca scabra, DC.
- Chrysopsis gossypina, Nutt.
- Conyza ambigua, DC.
- Baccharis augustifolia, Mx.
  - glomeruliflora, Pers.
- Pterocaulon pycnostachyum, Ell.
- Berlandiera tomentosa, T & G
- Iva microcephala, Nutt.
- Melanthera hastata, Mx.
- Zinnia multiflora, L.
- Rudbeckia mollis, Ell.
- Helianthus Radula, T. & G.
- Actinomeris heterophylla, Chapm.
- Coreopsis aurea, Ait.
  - gladiata, Walt.
  - nudata, Nutt.
- Acanthospermum xanthioides, DC.
- Palafoxia integrifolia, T & G.
- Baldwinia uniflora, Nutt.
- Actinospermum angustifolium T. & G.
- Cirsium Nuttallii, DC.
- Chaptalia tomentosa, Vent.
- Lygodesmia aphylla, DC.
- Pyrrhopappus Carolinianus.
- Lobelia glandulosa, Walt.
  - paludosa, Nutt.
- Vaccinium myrsinites, Mx.
- Leucothoe axillaris, Don.
  - acuminata, Dunal.
- Andromeda nitida, Bartr.
  - ferruginea, Walt.
  - ligustrina, Muhl. var. frondosa, Pursh.
- Kalmia hirsuta, Walt.
- Bejaria racemosa, Vent.
- Ilex ambigua, Chapm.
  - myrtifolia, Walt.
  - Dahoon, Walt.
  - coriacea, Chapm.
- Bumelia tenax, Willd., var.
- Styrax pulverulenta, Mx.
- Symplocos tinctoria, L'Her.
- Utricularia fibrosa, Walt.
- Pinguicula lutea, Walt.
  - elatior, Mx.
  - pumila, Mx.
- Bignonia capreolata, L.
- Gratiola subulata, Bald.
- Scoparia dulcis, L.
- Buchnera elongata, Swartz.
- Seymeria tenuifolia, Pursh.
  - pectinata, Pursh.
- Gerardia divaricata, Chapm.
- Gerardia aphylla, Nutt.
  - purpurea, L., var. fasciculata, Chapm.
  - filifolia, Nutt.
- Ruellia oblongifolius, Chapm
- Verbena Caroliniana, Mx.
- Callicarpa Americana, L.
- Hyptis radiata, Willd.
  - spicata, Poit.
- Pycnanthemum nudum, Nutt
- Salvia azurea, Lam.
- Scutellaria integrifolia, var. major, Chapm.
- Bonamia humistrata, Gray.
- Lycium Carolinianum, Mx.
- Bartonia verna, Muhl.
- Gelsemium sempervirens, Ait
- Polypremum procumbens, L.
- Asclepias amplexicaulis, Mx.
  - cinerea, Walt.
- Olea Americana, L.
- Rumex Engelmanni, Ledeb.
- Polygonella gracilis, Meisn.
- Persea Carolinensis, Nees.
- Callitriche peploides, Nutt.
- Euphorbia heterophylla, L.
- Jatropha urens, L., var. stimulosa, S. Muller.
- Styllingia sylvatica, L.
  - ligustrina, Mx.
- Tragia innocua, Walt.
- Quercus Catesbæi, Mx.
  - cinerea, Mx.
  - Phellos, L.
  - virens, var. dentata, Chap.
- Myrica cerifera, L., var. pumila, Mx.
- Pinus Elliottii, Eng.
  - australis, Mx.
- Sabal Palmetto, R. & S.
- Sagittaria natans, Mx., var. lorata, Chapm.
- Burmannia capitata, Chapm.
- Habenaria cristata, R. Br.
  - ciliaris, R. Br., var. nivea, Spreng.
- Spiranthes brevifolia, Chap.
  - graminea, var. Walteri, Gr.
- Pogonia divaricata, R. Br.
- Calopogon parviflorus, Lindl.
- Aletris aurea, Walt.
- Tillandsia recurvata, Pursh.
  - usneoides, L.
- Smilax auriculata, Walt.
  - tamnoides, L.
  - laurifolia, L.
- Lilium Catesbæi, Walt.
- Yucca aloifolia, L.
- Juncus Rœmerianus, Scheele
- Tradescantia rosea, Vent.
- Xyris Elliottii, Chapm.
  - platylepis, Chapm.
  - torta, Smith.
- Eriocaulon gnaphalodes, Mx.
- Lachnocaulon Michauxii, Kunth.
- Cyperus articulatus, L.
  - Baldwinii, Torr.
  - microdontus, Torr.
- Cyperus tetragonus, Ell.
  - rotundus, var. Hydra, Gr.
- Fuirena scirpoidea, Vahl.
- Eleocharis albida, Torr.
  - Baldwinii, Torr.
- Fimbristylis ciliatifolia.
  - stenophylla.
  - spadicea, Vahl., var. puberula, Chapm.
- Dichromena latifolia, Baldw.
  - leucocephala, Mx.
- Rhynchospora caduca, Ell.
  - capitata, Chapm.
  - Chapmanii, M. A. Curtis.
  - ciliata, Vahl.
  - divergens, Chapm.
  - Eliiottii, Dietr.
  - filifolia, Gray.
  - Grayii, Kunth.
  - megalocarpa, Gray.
  - miliacea, Gray.
  - oligantha, Gray.
  - plumosa, Ell.
- Scleria ciliata, Mx.
  - Elliottii, Chapm.
  - Baldwinii, Torr.
  - gracilis, Ell.

- Sporobolus Indicus, Brown.
  - Floridanus, Chapm.
- Muhlenbergia trichopodes, Chapm.
- Aristida stricta, Mx.
  - spiciformis, Ell.
  - lanata, Poir.
- Ctenium Americanum, Spr.
- Eustachys petræa, Desv.
  - glauca, Chapm.
  - Floridana, Chapm.
- Dactyloctenium Ægyptiacum, Willd.
- Tricuspis ambigua, Chapm.
  - cornuta, Gray.
- Uniola paniculata, L.
- Paspalum vaginatum, Swartz
  - distichum, L.
  - præcox, Walt.
- Panicum gibbum, Ell.
  - anceps, var. strictum, Chap
  - ignoratum, Kunth.
  - molle, Mx.
- Cenchrus echinatus, L.
- Stenotaphrum Americanum, Schrank.
- Rottbœllia rugosa, Nutt.
- Andropogon Elliottii, Chapm
  - brachystachyus, Chapm.
  - tetrastachyus, Ell.
  - Virginicus, L., var. melanocarpus, Ell.
- Sorghum pauciflorum, Chap.
  - secundum, Chapm.

- Aspidium Floridanum, Chap.

- Lycopodium cernuum, L.
  - inundatum, L., var. appressum, Chapm.

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NORTH AMERICAN PLANTS.

— CONTENTS OF —

FASCICLE III.

Distributed by A. H. Curtiss in 1879-80.

Anona laurifolia, Dunal.
(Leavenworthia Michauxii, Torr.
Warea cuneifolia, Nutt.
Alyssum Lescurii, Gray.
Polanisia trachysperma, Torr. & Gray
Polanisia tenuifolia. T. & G.
Hypericum aureum, Bartr.
Hypericum fasciculatum, Lam., var. aspalathoides,
Arenaria patula, Michx.
Stellaria uniflora, Walt.
Siphonychia Americana, Torr. & Gr.
Sesuvium pentandrum, Ell.
Sida filiformis, Moric.
Urena lobata, L.
Modiola multifida, Mœnch.
Pavonia spinifex, Willd.
Hibiscus furcellatus, Desv.
Melochia serrata, Benth.
Zanthoxylum Pterota, H. B. K.
Bursera gummifera, Jacq.
Amyris Floridana, Nutt.
Vitis incisa, Nutt.
Gouania Domingensis, L.
Dodonæa viscosa, L.
Hypelate paniculata, Don.
Cardiospermum Halicacabum, L.
Polygala Rugellii, Shuttl.
Crotalaria incarnata, L.
" pumila, Ort.
Dalea Hallii, Gray.
Petalostemon carneus, Mx.
Tephrosia angustissima, Shuttl.
Tephrosia leptostachya, DC.
Indigofera tinctoria, L.
Glottidium Floridanum, DC., var.
Sesbania macrocarpa, Muhl.
Zornia tetraphylla, Mx.
Desmodium molle, DC.
Phaseolus sinuatus, Nutt.
Vigna glabra, Savi.
(Galactia glabella, Mx.
Canavalia obtusifolia, DC.
Sophora tomentosa, L.
Ecastophyllum Brownei, Pers.
Cassia Roemeriana, Scheele.
Mimosa strigillosa, T. & G.
Desmanthus brachylobus, Benth.
(Chrysobalanus oblongifolius, Mx.
Chrysobalanus Icaco, L.
Œnothera sinuata, L., var. humifusa, Tor. & Gr.
Ludwigia capitata, Mx.
" sp.
Rhizophora Mangle, L.
Laguncularia racemosa, Gærtn.
Conocarpus erecta, Jacq.
" " var. sericea, Chapm.
(Ammannia humilis. Mx., v.
Ammannia latifolia, L.
Papaya vulgaris, DC.
Eugenia dichotoma, DC.
(" monticola, DC.
" buxifolia, Willd.
Psidium Guayava, Raddi.
Eryngium Baldwinii. Sprg.
Chærophyllumn Teinturieri Hook & Arn.
Borreria micrantha, T. & G.
Ernodea littoralis, Swz.
Psychotria lanceolata, Nutt
(" rufescens, H.B.K.
Hamelia patens, Jacq.
Randia aculeata, L.
Oldenlandia Halei, Chapm.
Vernonia Lindheimeri, Gray & Eng.
Eupatorium mikanioides, Chapm.
Bellis integrifolia, Mx,
Guttierezia sphaerocephala, Gray.
Chrysopsis trichophylla, N.
" hyssopifolia, Nutt.
Berlandiera subacaulis, Nutt
Helianthus debilis, Nutt.
Coreopsis Leavenworthii, Torr &. Gray.
Bidens leucantha, Willd.
Flaveria linearis, Lag.
Palafoxia Feayi, Gray.
Lobelia Feayana, Gray.
Scævola Plumieri, Vahl.
Campanula Floridana, Watson.
Vaccinium Elliottii, Chapm.
Chrysophyllum oliviforme, Lam.
Sideroxylon mastichodendron, Jacq.
Bumelia lycioides, Gærtn.
Ardisia Pickeringia, T. & G.
Plumbago scandens, L.
Samolus ebracteatus, Kth.
Utricularia gibba, L.
Ilysanthes grandiflora, Bth.
Gerardia Skinneriana, Wood
Calophanes linearis, Gray.
Verbena bipinnatifida, Nutt
" Aubletia, L.
" " var. maritima.
Herpestis amplexicaulis, Ph.
Herpestis nigrescens, Benth
Lantana involucrata, L. var.
Citharexylum villosum, Jacq.
Avicennia nitida, Jacq.
Satureia rigida, Bartr.
Hedeoma Drummondi, Bth.
Calamintha glabella, Benth.
" coccinea, Benth.
Scutellaria brevifolia, Gray.
Physostegia Virginiana, var. denticulata, Chapm.
Heliotropium curassavicum, L.
Heliotropium polyphyllum, Lehm., var. Leavenworthii, Gray.
Heliophytum parviflorum, DC.
Phacelia Purshii, Buckl.
Ipomœa Pes Capræ, Sweet.
" cathartica, Poir.
Evolvulus argenteus, Pursh.
Solanum verbăscifolium, L.
Physalis viscosa, Gr. Flora.
Sabbatia Elliottii, Steud.
" gracilis, Salisb., var. grandiflora, Gray.
Eustoma exaltatum, Griseb
Limnanthemum trachyspermum, Gr.
Spigelia Marilandica, L.
Mitreola petiolata, T. & Gr.
(Amsonia Tabernaemontana, Walt.
(Asclepias tomentosa, Ell.
Metastelma Bahamense, Griseb.
Philibertia viminalis, Gray.
Gonolobus suberosus, R. Br.
Forestiera ligustrina, Poir.
" acuminata, Poir.
Aristolochia tomentosa, Sims.
Boerhaavia hirsuta, Willd.
Pisonia obtusata, Swartz.
Petiveria alliacea, L.
Atriplex cristata, H. B.K.
Iresine vermicularis, Moq.
Telanthera Floridana, Chapm.
Polygonella parvifolia, Mx.
Coccoloba uvifera, Jacq.
" Floridana, Meisn.
Persea catesbyana, Chapm.
Cassyta filiformis, Miller.
Euphorbia dentata, Michx.
" glabella, Swartz.
" graminifolia, Mx
" pilulifera, L.
" polyphylla, Eng.
" trichotoma, H. B. K.
(Ceratiola ericoides, Mx.
Batis maritima, L.
Ulmus crassifolia, Nutt.
Ficus aurea, Nutt.
Carya aquatica, Nutt.
(Quercus lyrata, Walt.
Myrica inodora, Bartr.
(Sabal serrulata, fr.
Epidendrum venosum, Lind
Thalia divaricata, Chapm.
(Zephyranthes Treatiae, Watson.
Cooperia Drummondii, Her.
Tillandsia utriculata, Lec.
" bracteata, Chapm.
" caespitosa, Lec.
Smilax Walteri. Pursh.
Schœnocaulon gracilis, Gr.
Nolina Georgiana, Mx.
Juncus repens, Michx.
Tradescantia Floridana, Watson.
Cyperus brunneus, Swz.
" Lecontei, Torr,
" ligularis, L.
" Nuttallii, Torr., var.
" virens, Michx.
(Eleocharis albida, Torr.
(" capitata, R. Br.
Scirpus supinus, L., var. Hallii, Gr.
Fimbristylis Warei, Torr.
Rhynchospora cymosa, Nt.
" corniculata, Gray.
" divergens, C. var.
" microcarpa, Bald.
" semiplumosa, Gray, var.
" stipitata, Chapm.
Carex dasycarpa, Muhl.
Aristida scabra, Kunth.
Vilfa sp.
Cynodon Dactylon, Pers.
Trieuspis stricta, Nutt.
" trinerviglumis, Buckl.
Paspalum fluitans, Kunth.
(Paspalum distichum, var.
Panicum amarum, Ell.
" Colonum, L.
" divaricatum, L.
" microcarpon, Muhl.
" striatum, Lam.?
" sp.
" sp.
Setaria Italica, Kunth.
Erianthus strictus, Baldw.
Andropogon tener, Kunth.
" Torreyanus, Steud.
Acrostichum aureum, L.
Polypodium pectinatum, L.
" Phyllitidis, L.
" aureum, L.
Ceratopteris thalictroides, Brongn.
Vittaria lineata, Swz.
Blechnum serrulatum, Mx.
Aspidium unitum, var. glabrum, Mett.
Nephrolepis exaltata, Schott
Isoetes flaccida, Shuttl.

NOTE.—In this fascicle will be found 215 species and varieties, the 15 with parentheses at left of names being supplementary to Fascs. I and II. All have printed labels, and there will probably be no omissions from any of the sets. The three specific names omitted in the list will probably be supplied in the labels. Price of Fasc. III., at Cambridge, eighteen dollars.

Jacksonville, Florida, January 1, 1880.
A. H. CURTISS.

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MISSOURI
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Recd Aug 31
Ans. Sept 7

Liberty, Bedford Co., Va.
Aug. 27, 1872.

Dr. George Engelmann:

Dear Sir— As you will perceive from the inclosed prospectus, I have in preparation a new catalogue, which I desire to make as serviceable as possible to exchangers.

It has recently occurred to me that the States of Missouri, Iowa & Minn. ought to be included, as there are very many in those States to whom it would be useful. But I am wholly without reliable materials, & can do nothing without the assistance of persons familiar with the flora of those States—

Knowing that you are better informed on the subject than any one else, I take the perhaps unwarrantable liberty of asking that you will give me a list of such trans-Miss. sps. & vars. found in this section as readily occur to you. All I ask of you is to run over the Catalogue I send & note down such sps. as you see should be included, giving the catalogue No. each should follow. Unfortunately, many of the genera are arranged alphabetically; in such cases, the names of sps. would need to be given instead of Nos.

At Prof Porter's request & of my own judgement too

I shall arrange all sps. in the exact order adopted by Gray. Wood will be made secondary & his sps. & vars. as well as those of Gray's 2d Ed., by which many herbaria are still labeled, referred to by signs.

I shall of course expect to make you some return in case you do me the favor, & therefore have marked the Catalogue sent, the dashes indicating the Virginian sps. I have in duplicate from which you will be at liberty to select freely - I can send you Juncus Roemerianus much taller than you describe it to be - it agrees exactly with Chapman's "J. maritimus" - time of flowering evidently April - a most remarkable sp. apparently developing one leaf a year. the lvs. long persistent. J. setaceus is rather common in S.E. Va. Mr. Canby thinks my specs. interesting as to development of leaves. - flowers in June & July - J. dichotomus very variable - as also J. scirp. echinatus - I have found in '69 a very interesting Juncus here which I called J. scirp. polycephalus - I have found most of your vars. of Sagittaria variabilis in Va. & think yours a very good arrangement - Pinus pungens is not uncommon here - it flowers earlier than our other sps., which are P. inops, mitis, rigida, & Strobus -
I think our P. rigida rather different from the Northern growth, rather between the latter & P. Taeda, which I suspect to be only a Southern var. - Hoping to hear soon whether you will aid me, I am
Very truly & respectfully yours, A. H. Curtiss

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Missouri
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Recd Apl 17
Ans Oct 13

Liberty, Bedford Co., Va.
Sept. 12, 1872

Dr. George Engelmann;

Dear Sir - I am gratified to learn from your letter of the 7th inst. that you are willing to assist me on my Catalogue. - I wish now that I had sent you an interleaved C'logue, but probably it will be as convenient to use separate paper - Please indicate the natural position in the manner I mentioned - I suppose none of the sp. that I shall find in your list grow in Europe; if any of them do, please place an E. or Eur. before them. As soon as I receive your list I shall probably wish to send my Ms. to press - Considering that a list of the plants in Chapman's section is almost useless to exchangers, I decided to omit them, in order to make the C'logue more convenient & cheap - As the southern boundary of Gray's section coincides with that of Mo. I thought it would be best to add the tier of States just west of said section, in consideration of the fact that there are many collectors in Mo. & Iowa - & some in Minnesota - The C'logue being on an entirely new plan, it is an experiment, and if it prove satisfactory, I can enlarge it in a year or two - I am confident

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that there is not over one exchange in a hundred made with persons south or west of what I call Gray's section - On the whole I prefer Gray's old C'logue to Mann's but both are inconvenient when one or both parties to an exchange use Wood. - I notice what you say in regd. to Yucca in your letter and in the Torrey Bulletin - Your discovery is very interesting, & I wish I had some notes to communicate. I have never seen a Yucca growing wild, nor examined any except Y. filamentosa, of which we have a fine clump in front of our house - It flowers once in two or three years, and always sets as much fruit as it seems able to support, but we cut the stalks off as soon as the fls. are gone - Most of the fls. fall off fresh and entire (unfertilized?); but when the fr. sets, the perianth withers around it. I can send you specms. with very young fr. immediately or when I send the other things. I have never seen any sign of worms about it -

I have noticed that a great number of larvae develope in the fr. of the monoecious Melanthieae - May not this have a similar significance? I was on the S. Peak of Otter yesterday & brought home a quantity of Melanthium, of which I will send you a pkge. of live specms. by mail, but as a storm came up, I had to return without getting Veratrum parviflorum, which

I think Mr. Leggett is not warranted in publishing private correspondence as he does; both the notice of my C'logue and of my wanting exchangers (a year or so ago) were inserted without my knowledge or desire.

I wanted most; perhaps I may go again in a fortnight. The Melanthium flowers in July & Aug.; the Veratrum in Aug. & Sept.; probably both are visited by the same insect. But V. viride must have another sp., as it flowers in May & June; in addition, this sp. was nearly devoured last spring by a green larva working externally. The heads of unradiate Compositae are very much devoured by small larvae, especially Polymnia. I presume Mr. Riley would like to receive them & raise the insects. As for myself, I find I have no time for entomology. I have quite a quantity of unmounted specms. which I wish might be put to some use.

I have recently recd a letter from the P.M. Genl. saying that botanical pkgs. may be sent like roots &c that is, in pkgs. of not over 12 ozs. in weight at a prepaid postage of 2c per 2 ozs. I had a pkge from Colo. lost about the time the law was changed.

Before you return the Catalogue, mark all the plants you want, & I will send them with pleasure either a mail or express package.

I remain

Very Truly yours

A. H. Curtiss

Rec'd Oct 30th
Ans Nov 1 Liberty, Bedford Co., Va.

Curtiss

Oct. 26, 1872

Dr. Geo. Engelmann:

Dear Sir - I rec'd your letter of the 13th inst. yesterday, and as it has been so long on the way, I hasten to acknowledge its receipt & to thank you for the valuable notes & additions to my Catalogue which it contained - But I was not at all impatient, for as my Canadian friend is expected home in Nov. I have concluded not to send the Catalogue to press before Dec. 1.

I will send your desiderata in Decr. - prefer to wait till I make my general distribution, as I then overhaul all my specims. and can select all forms that I think will interest you.

I send in advance specims. of two plants not described in our

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Am. text books, which I would like to enter in my C'logue. I enclose labels —

The Galium is common in this region, in dry, open situations, especially along road-sides, but in the latter situation I think it runs mainly to prostrate leafy shoots, which are very conspicuous in March & April, growing with Alchemilla arvensis, which springs up at the same time. I ought to have investigated this point, & also to have secured specms. of this growth. It varies from 3' to 18' in height, but generally is 4' or 5' high, & but little branched, unless browsed down. The fls. are greenish-brown. It is an extremely neat & interesting little plant & deserves the name nitidum, but I take it to be G. anglicum, Huds., or as Hooker calls it, G. parisiense, var. apricum – but parisiense is too bad a name!

The Antennaria grows with the ordinary A. plantaginifolia, but there are no intermediate forms; if it be a var. of this, it ought to be named (a word for rosetted would be very appropriate, or pusilla or parvula) for it is far more different from the ordinary form than the var. monocephala, which is a mere accidental form produced by growing on damp banks or rocks. But I see no point in which it differs from A. dioica. This sp. is not known to grow south of the Hudson's Bay region; likewise Thlaspi arvense was not known to grow south of Canada till I found it growing luxuriantly in tide-water Virginia — I have rec'd the same form from Illinois. I have found but

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one patch of it, spreading extensively, its diœciousness only preventing its wide distribution. — I believe there is no material difference, except in leaves between A. dioica & A. plantaginifolia (I send a spm. of the latter); but in A. dioica, as in my plant, the outer involucral scales differ much from the inner, while in A. plantag. they do not. I take it that A. dioica, Gaertn. = A. dioica, Br. & = Gnaphalium dioicum, L. (?) I have spms., two from Europe & one from the Rocky Mts. of Hall's collection. The latter differs considerably, having 11 heads in a loose, panicled corymb, & very small & but little dilated radical lvs. silky above, 10' high. — In my Eur. spms. the involucre is rather more showy than in mine; in one spm. rose-colored. 8 spms. 2'-4½ high. — But I need not enlarge on the subject, for you will solve the question at a glance! —

I have not succeeded in obtaining specs. of any of the Eur. annual Galiums. I suppose it would be best to place this before Aparine, as the sps. are arranged by Gray (?) —

Rec^d Oct 30 '72

At your suggestion I have entered Euphorbia inaequilatera, Sonder. as a synonym of E. serpyllifolia, Pers. I see the descriptions apply to one sp. Sps. found only in Chapman's section I shall omit — Doubtleſs some of them occur in Missouri, but I shall not know which they are, except the one you mention, Heliotropium tenellum, but this is not in Chapm., nor H. Leavenworthii - Malvastrum angustum, said to grow on an island in the Miſs. I will enter, like M. coccineum, as a trans-Miſs. sp.

I read your synonym of Lemna Torreyi, L. Valdiviana, Phil. - am I right about the authority?

I suppose your Boltonia latisquama does not equal Wood's B. decurrens; it seems singular that Gray should omit so good a sp. as the latter —

Does the typical form of Eryngium asperum, of Helianthus cinereus (what is the authority for this name?) & of Actinella scaposa grow in Mo.? Does your Cuscuta Saururi grow as far north as Mo. & Ky., & which side of the Miss. River?

In consequence of the carelessness of our authors, I find the greatest difficulty in giving authorities for vars., but have adopted a rule to give, in parentheses, the names of the botanists who originally described them as sps., when I find that such was the case; thus: Senecio aureus, L. -, β. obovatus, (Muhl.) - γ. Balsamitæ, (Willd.) - δ. lanceolatus, (Oakes.) - ε. gracilis, (Pursh.) Pursh described the var. discoideus, but Wood seems to attribute the name to Porter, I will enquire of Dr. Porter about it — By this means I can omit a large number of synonyms, which

I would otherwise give, as a great many of Gray's vars. are considered sps. by other authors —

On the last page I give a few Missouri plants not on your list, which I find in one sent: by a Mr. Broadhead, with whom I am thinking of making a small exchang.

Varieties which are founded on differences in color of flower I think I shall generally omit, for it is useless to exchange dried spms. of them unless they are some shades of yellow.

As his list is inaccurate, I will be greatly obliged if you will copy for me such as you think proper to include, with authorities & position.

Hoping to hear from you soon I remain

Yours very truly

A. H. Curtiss —

Broadhead's Mo. plants.

Anemone stellata, var. decapetala (Cass & Bates Co.
Draba caroliniana, var. siliculis(?)
" " var.(?) hispidulis(?)
Viola cucullata, v. alba - - (W. Mo.
" delphinifolia - "large var."
Aquilegia Canadensis, var. alba
" "yellow var."
~~malvastrum angustum~~
Sida hispida - West Mo.
Astragalus distortus var. alba
Sedum stoloniferum (Newton Co.
- Apogon humilis (Ell.) - W. Mo. & S.
- Helianthus orgyalus - W. Mo.
Grindelia squarrosa "
Coreopsis grandiflora "
Lobelia syphilitica, var. alba
Castilleia coccinea, "yellowish var."
Salvia azurea - "very common on Prairies in W. Mo."
- " trichostemoides - W. Mo.
Phlox pilosa - several var.
- Solanum rostratum (Jackson Co.
Oxybaphus angustifolius
Carya "pecan"
Calophanes oblongifolia
Dipteracanthus

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Rec'd Oct 30 1872

Certainly no fern.

D. A. P. Watt.

though exhibited as such by a gardener at the late Lynchburg fair (together with a plant of Sarracenia purpurea from S.C. as true to name as thousands of plants of it that I have seen in N. New York.) I am curious to know what it is, and therefore send it on to you. You need not return it, as Mr. Watt has done.

I conclude you think of revising Quercus. Next fall, if the Oaks fruit, I think I could make out a set of specms. showing that Q. nigra varies into Q. tinctoria. Both are very variable, & to my mind, equally deserving of the rank of species. Q. coccinea sometimes has leaves with much toothed, dilated, overlapping lobes — & acorns nearly surrounded by the cups; but I think these two peculiarities are not always united in the same tree. The fr. is exceedingly variable in size, but always quite different from that of Q. tinctoria —

Q. alba is quite variable in fr. & lvs. & Q. falcata in leaves —

Have your Q. tridentata, Q. quinquelob. & Q. rubra runcinata been found East of the Mississippi?

I notice Wood describes Q. triloba as a distinct sp. I will place it with the hybrids —

Has Lemna gibba been found as far east as Mo.? & L. paucicostata East of the Mississippi?

A.H.Cu

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Rec ~~Dec~~ 17
Ans. – 26
Feb 28

Liberty, Bedford Co
Va
Dec. 12, 1872

Dr. George Engelmann;

Dear Sir – I think I have not acknowledged your kind & very valuable letter the 1st ult. At the time of its receipt my father was very sick, and on the 15th ult. he died, after which I had to convey his remains to northern N.Y. for interment. I would like to let all botanical matters lie a month longer, but my obligations are so numerous, that I must not follow my own inclinations altogether, but probably I shall not commence my distribution before Jany. 1. I have to-day looked at my C'logue for the first time & have made the entries & corrections suggested

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by your last letter - & such
as I have drawn from other
sources - On a separate half
sheet I give a few more
questions, & shall be obliged
to you if you will return it
with answers annexed -

I am glad to have my opinion
confirmed of the Galium and
Antennaria - Dr. Parry knows
of no trans-Miss. plants in Iowa
except Viola Nuttallii & Cleome
integrifolia, & the latter is
reported to me from Illinois
as well as from Mo., Iowa & Kansas.
In Watson's Suppl. I find a good many
attributed to Iowa, but as there
are many obvious errors in this
work I cannot altogether rely
on it -

"Boltonia decurrens", described
in Wood's Botanist & Florist

as growing in Ill. seems to me to be quite distinct from So. gastifolia.

I am greatly obliged for the fine lot of Lemna paucicostata you sent, shall give it a wide distribution.

Yours very truly

12½° Min.
31½° Max^{m}

18 2½

31½

Rec April 5th
Ans ——— 8

Liberty, Bedford Co, Va.
March 28, 1873

Dr. Geo. Engelmann;

Dear Sir— Your favor of the 28th ult. came duly to hand & I expected to have acknowledged it sooner & to have been able at the same time to have sent you first proof of my C'logue, or rather, second proof of one-fourth — The printer sent me first proof of one page a month ago, which suited me well, but he had to send for more type afterwards, to go to Washington, &c & but that I have been so extremely busy about my distribution, my patience would have been thoroughly exhausted —

I have been laying out Spms. for about twenty persons, but I have aimed to give you all your marked desiderata, & I now send them by mail with this, & hope they will arrive in good condition.

As you did not give the position of Acerates angustifolia I will enter it, at a venture, between A. longifolia & A. paniculata.

When a sp. has such extreme forms as has A. viridiflora, Spiraea salicifolia, &c., I think one of them ought to be given in our Manuals as a named var.

I hope to be able soon to send you a proof.

Yours very respectfully

A. H. Curtiss

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Recd April 15
Ans — 16

Liberty; Va - April 8, 18[illegible]3

Dr. Geo. Engelmann;

Dear Sir - I went to Lynchburg yesterday to attend to the printing of the first one-fourth of my Catalogue, of which I inclose a copy for your examination - These are the 4th & 5th pp.; next will come the 3d & 6th, then the 2d & 7th, & last the 1st & 8th - one sheet being pasted into the other - I also send you a copy of the heading & explanations which will occupy nearly 1/4 of 1st p. & I do so especially to obtain your valued criticisms - You can judge better than I whether the explanations are full & clear, & as your botanical lore is so vastly greater than mine, I doubt not that you ~~you~~ could suggest many improvements in regard to technical phraseology & general construction, if your time would permit - As for myself, I have so many "irons in the fire" that I am well nigh distracted - & just now comes a list of over a hundred root & seed desiderata from Gray & Hooker! It seems that the more I send them, the more they ask —

I think my List will be liked by the mass of our botanical students, & that it will lead to a more accurate study of the science - & probably Botanists will not pick flaws in so *humble* a production - Those connected with Mann's list will probably be jealous, like Canby, who has *tried* not to give me any assistance; but a pkge. just recd from him will enable me to give some of his latest discoveries - a good joke on him(?)

You will perceive some awkward arrangements of synonyms in Ericaceae; elsewhere I shall try to improve on it. Hoping you will favor me with a "free criticism", I remain

Very truly & respectfully yours

A. H. Curtiss

April 10th - Having failed to mail this as I intended, I send a couple of spms. which I will thank you to pass judgment upon - 1st. - What I take to be Sorghum ave*naceum* - Some authenticated spms. of S. *nutans* I have lately recd - together with Chapman's descriptions, make me confident that the sp. that grows here is *S. avenaceum*, though that has not before been reported from Gray's section - 2d - A Phlox sent me from Ill. labelled *P. subulata* - It is so different from my spms. of the latter, & so resembles a Stellaria that I am inclined to believe it be Gray's Phlox *stellaria* - n. sp -

A.H.C.

Catalogue
# of the
Phaenogamous and Vascular Cryptogamous Plants
# of Canada & the North-eastern Portion of the United States,
Including Virginia & Kentucky on the South, Missouri, Iowa & Minnesota on the West –

Explanations: – The following Catalogue, prepared expressly for use in botanical exchanges, is intended to include all the Phaenogams and Vascular Cryptogams of that portion of North America in which there are at present resident collectors; and to illustrate their distribution by carefully compiled floras of the three most dissimilar sections east of the Mississippi; while, by the introduction of Synonyms, it is adapted in nomenclature to the leading American and European Manuals of Botany – Of the three dotted columns, the first (headed C at top of first Col. of each page) represents the flora of Canada; the second (headed I), that of Illinois; the third (headed V), that of Virginia. In the column headed E, the *'s indicate which plants are found also in Europe; the w's, which are found only west of the Mississippi – A name in Italics, with a parenthesis at left, is a synonym now in use of the one next above; a dash denotes a repetition of the preceding specific name (differences in inflection being understood). A † refers to Gray's Manual of Botany, 2d. 3d & 4th Eds.; a ‡, to the same, 5th Ed.; a ‖, to Chapman's Southern Flora; a §, to Wood's Botanist & Florist; a × (at right),

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to standard European Manuals. The Nomenclature adopted by Prof. Gray is given precedence, and the same authority is followed in regard to natural arrangement and the citation of authors; the Carices alone are arranged alphabetically, but numbers are affixed showing their position in Gray's arrangement. Varieties are preceded by the first Greek letters; when there is a var. a., it is considered that the specific name is merely comprehensive, or that it represents a typical form not found in this territory. When a variety was originally described as a species under the same name, the name of the original author is generally given in parentheses.

For valuable {contributions to assistance in} the present work, special acknowledgment is due to Dr. Geo. Engelmann, of St. Louis, Prof. T. C. Porter, of Lafayette College, John Macoun, Esq., of Belleville, Canada, and Dr. Henri van Heurck, of Antwerp.

Liberty, Bedford Co., Va., May 1, 1873. Allen H. Curtiss.

Price:— 1 copy, 20c; 3 copies, 50c; 7 copies $1.00.

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Rec Jun 20th
Ans — 25

Liberty, Bedford Co. Va.
June 16, 1873 -

Dr. Geo. Engelmann:

Dear Sir - In order that you may not quite forget me & my Catalogue, I send you the 2d & 7th pp. of the latter, which is "dragging its slow length along" & approaching completion. The copies I have rec'd of this last impression do not look as well as the others - The Carices you will observe are arranged alphabetically & Gray's Nos affixed. The statement in my preface which you criticised was not a correct statement of my idea & I have altered it. I cannot think, with you, that it would be better to distinguish the plants simply *naturalized*; one leading object of the Catalogue being to render assistance in exchange with Europeans, I think it better to distinguish those that are common to both countries; so, if we have here only a *var.* of a European *sp.*, I do not prefix a * to the specific name. But I do not suppose I have done this accurately. I think with you that many of Gray's S. Va. plants could not be found in this State, but when a leading author includes a plant in the flora of a section so little botanized as this, it is difficult to expunge it.

I recently made a trip to our Peaks of Otter & discovered a very interesting Anemone - I think it to be the A. trifolia, L., but

Prof. Gray inclines to call it the one of the long-European vars. of A. nemorosa. I collected it under difficulties & only brought home three spms. I think I will send you one, with one of Convallaria. I think I neglected to reply to your letter of April 8th. I shall be very much obliged for copies of your monographs of Yucca & Quercus – wish I had had the latter before, as I was sorely puzzled in working it up for my C'logue –

The *canard* about the Natural Bridge originated in that hot-bed of secession, *Southern* chivalry, & other things evil, the Va. military Inst. at Lexington. Prof. Porter is just starting off with Profs. Lesquereux & Leidy to join Hayden's Expedition. He has recently favored me with a *criticism* more favorable than I expected.

I hope my printer will finish the job by July 1st for I have a multitude of cares & wish to get this off my mind.

Yours very truly

A. H. Curtiss.

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Rec - Sept 21st
an — 27

Near Jacksonville, Fla.
Sept - 11, 1878 -

Dr. George Engelmann:

Dear Sir - As you are the recognized authority on Junci, I have concluded to send you all the forms found here, except J. Roemerianus, polycephalus & repens, which are well marked and the first two rather too bulky - In the package accompanying this you will find each specm. on a numbered sheet, to which Nos you can refer in naming them. I enclose a few blank labels which you can use if you find any of the specms. worthy of preservation.

The Cheilanthes I thought might be new to you as it has been collected but once before - on the Mexican boundary. I have sent specms to Prof. Eaton to be engraved for his new work -

I have fr Mexico & Cuba but not U S

The Corydalis I presume to be your var. micrantha of C. aurea, which also grows here. In Va. I used to find very small flowered forms of C. flavula.

As to your genus Yucca, I have only to remark that Y. filamentosa never fruits here, while Y. aloifolia fruits freely — capsules fleshy, turning purple & persisting indefinitely —

As soon as you determine my Junci, I will have labels printed for them. I have sets of most of them for my 2d Fasc. of S. plants.

Yours very respectfully

A. H. Curtiss

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Rec Nov. 5th
Ans Dec 13th

Near Jacksonville, Fla.
Oct. 28, 1878.

Dr. George Engelmann:

Dear Sir. I am very much obliged to you for determining my Junci, & for your kind letter of Sept. 27th. Yucca filamentosa I know certainly & it never fruits here either wild or cultivated. In Va. I had it in cultivation & it fruited abundantly! Y. gloriosa I have only seen here in gardens, where it does not fruit. There are some other plants here which puzzle me sorely. Chrysobalanus oblongifolius, Asimina pygmaea & Smilax glauca are abundant & distributed as if from seed, & yet I have never seen ~~sett~~ a vestige of fruit on either, & the Smilax never in flower! though I have searched diligently for all three for three years.

We have also a grass which spreads rapidly through neglected fields, but after the closest search I have failed to find any inflorescence. I have just sent Genl. Munro 100 Grasses from here to study for his monograph, but having no specims. prepared of this neglected to send it. It has a tough woody root-stock like Arundinaria & foliage like a Panicum. Of the latter genus I sent Munro half a dozen forms which he will probably consider sps. P. dichotomum has been made altogether too comprehensive. My 1st Fascicle contained P. serotinum, Trin., & the 2d will contain Paspalum obtusifolium, Raddi.

I have not your Revision of Junci, & shall be very glad of the copy you offer me - & also of the incomplete set of Junci Am. Boreali, provided I can make a return for it -

But I am only using my fascicles
for exchange & they ~~number~~ each number
250 full-sheet specimens. Have you
not an accumulation of trans-Miss.
duplicates which you would add to
the Junci &c. for my 8. sets?
I could offset 250 sps. now, 500
next winter, 750 a year later, & so on.
If you are willing to enter into
such an exchange, please send me
the plants next month if possible.
If for one Fasc., send by mail; if
for more, by express.

Hoping we may be of mutual service
to each other, I remain
Yours very truly

A. H. Curtiss

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Rec Jan 4

ans by A.C. Jan 29 and R.L.W.

Herbarium of A. H. Curtiss,
Tallegrand Place, near
Jacksonville, Florida., Dec. 30, 1878.

Dr. George Engelmann -

Dear Sir - I hope this will find you in better health than did my last; it leaves me worse than the last did, attacked again by the "chills" & taking another course of quinine - the *sine qua non* in this climate - and yet we are having our coldest weather now, ice having formed 1/4 inch. thick in exposed tubs.

I have only glanced at your Junci as yet - Shall reach the Junci in about a month in selecting for the Va. Univ. herbm & shall then incorporate your set as a prominent & most valued portion of it (I mean, my own herbarium!). Many thanks for the Monograph, which is only second in value to the fascicle. I have a single stem somewhere of Chapmani

J. caulata collected very late & hope to secure it for my 3d Fasc.

As it is now too late to obtain a list from you to make a selection this winter, I have concluded to send you my first fascicle (250 sp.), presuming that you will send me something for it additional to the Junci. As the 2d Fasc. contains considerable material supplementary to the first I wish you to have that also —

Send me any trans-Mississippi plants you have to spare. I have never been able to purchase sets & therefore have not many western plants. I have directed Prof. Gray to forward to you two sets of my plants, and in so doing have presumed on your good nature in a two fold manner. One of them is intended for Mr. Geo. D. Butler, Almont, Iowa. I asked Prof. Gray to bind the two

together, & if he does so they will cost
little more than one. You can
separate them, forward one to
Mr. Butler, inform him of the Amt.
due you (half the charges to St. Louis)
& he will refund the same to you;
if not, I will. I presume you are
acquainted with him. If you
prefer, I will put up the 2d Fasc.
so that it can be sent by mail.
If you send only enough to offset
my first-fasc. please send it by
mail; if for both, send by express.
Whatever you send I wish to receive
as soon as possible, so that I may not
have to lay the pkg. on the shelf till
another winter. I mean to send you
some of the Lemna which grows
with Azolla here, & with Fasc. 2
some of that strange grass I wrote
about. Where the old roots are
exposed they present a coralline appearance.

Mr. Kutten would pay the charges from Cambridge, but I study economy both for myself & others. A few days ago I had to go to the city to get an express package & pay $1.25 on it, when it could have come directly to me by mail for 35c! And Dr. Vasey once sent me 60 spms. by express at a cost of $2.00. — so much for thoughtlessness.

With best New Year's wishes I remain

Yours very truly

A. H. Curtiss

N. B. In first fasc. some of the spms. are wrongly labeled
I placed too much reliance on Dr. Chapman's, If you accept Prof. Gray's dicta, please change

Eryngium praealtum	to	E. Mettaueri, Wood.
Chrysopsis trichophylla	"	C. gossypina, Nutt.
Solidago Boottii	"	S. brachyphylla,
Bumelia lanuginosa	"	B. tenax, var.
Utricularia biflora	"	U. fibrosa, Walt.
Panicum villosum	"	P. serotinum, Trin.

See list of fasc. 1 corrections accompanying 2d fasc. -

Dec 30 1878

P.S. I presume I wrote you that I had undertaken to supply a botanical collection for the Va. University. I am progressing well with it & have enough material to "fill the bill". The Amt. allowed for show specms. is only nominal ($25.) but I wish it to be worth double that. I intend to send as many as 150 kinds of tree fruits, wall sheets of ferns & algae, entire plants of Palmetto, Zamia, etc. woods, roots, &c. Cannot you make some addition to the display, in the shape of western tree fruits or other vegetable curiosities?

I most lack the western acorns, which are very curious.

A.H.C.

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Rec Febr 3
Ans oct 79

Herbarium of A. H. Curtiss,

Talleyrand Place, near
Jacksonville, Florida., Jany. 28 1879

Dr. Geo. Engelmann:

Dear Sir - I am in receipt of your card of the 20th & have just opened the pkge. of Texan plants - They are valuable plants but unfortunately they have no names - I presume you have a Catalogue of them & I wish you would forward it to me at once - If I do not get it soon I shall have to put the plants aside till next winter.

I am very sorry to hear that you are in trouble, but hope the cloud has risen ere this -

Yours Truly

A. H. Curtiss

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Rec Nov 29
Ans Dec 3'

Herbarium of A. H. Curtiss,

Talleyrand Place, near
Jacksonville, Florida., Nov. 25, 1879

Dr. Geo. Engelmann;

Dear Sir — I received with much pleasure your letter of Oct. 19th & the work on Californian Oaks. It was unfortunate that the oak specimens in my 2d Fasc. were so incomplete & poorly pressed; had I not been short of species I would have omitted them. I will not enter into explanation except to say, as to Q. pumila, that it very seldom fruits, & I thought it not worth while to wait for fruited specims. Chapman's Q. virens var. maritima like his Myrica cerifera var. intermedia I take to be merely connecting forms & not worthy of collection — I shall duly communicate your notes & Mr. Watson's

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to all who have rec'd Fasc. 1 & 2
I will get a cone from the tree
which supplied my fl. specms. of
Pinus Elliottii & send you for exam-
ination - It is too bad if I made
a blunder after all my pains.
Probably I mistook the cones
of the low-land P. Taeda for those
of P. Elliottii.

I note what you say in regard
to the Sagittarias & Commelyna
communis - My 3d Fasc. will contain
something similar to the latter, the
pretty little Tradescantia Floridana, Watson.
As to Vitoses; V. vulpina is common
everywhere in Fla. & V. aestivalis & Labru
not infrequent. V. candicans I don't
know unless it much resemble one
of the others - V. bipinnata is commo
along streams - V. incisa will be in
Fasc. II unless I conclude to
throw it away -

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V. cordifolia & riparia I have never detected in Fla. Both were common in Va. & I readily distinguished them by their seed, &c.

I shall not have much time to devote to other than S. plants this winter - & what you have for me I wish you would send to Dr. Gattinger, of Nashville.

He sent me 1000 specimens for my Fascicles & I promised to repay him partly with Western plants. Therefore if you will send him what are due me on Fascs. I & II & for Fasc. III (if you want it) it will serve me better than to send the plants to me.

He writes that he wants plants most nearly connected with the flora of Tenn. & that he has not time to attend to the flora of the far west

If you have another set of the

Junci & of Lindheimer's plants with names, they will certainly be acceptable to him — and any plants from the region lying between the Mississippi & Rocky Mts. You sent me a set of the Junci & some of Lindheimer's plants — one or two sets — I let someone else have the Texas plants as I could not obtain their names. You can probably tell better than I what is due for the 500 sps. sent by me. This year's Fasc. will contain but 200 sps.

I wish you would give me the addresses of some good collectors west of the Miss. such as would prepare good sets for my Fascicles in exchange for Fla. plants. I know Reverchon, Snow & Pepoon.

Yours very truly

A. H. Curtiss.

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Rec Febr 24
ans " "

Herbarium of A. H. Curtiss,

Talleyrand Place, near
Jacksonville, Florida., Feby. 15 1880.

Dr. George Engelmann:-

Dear Sir, Your letter of Dec. 3^{d} was duly rec^{d} - I now send you specims. of two Vitises, one is what I have called V. Labrusca - but your ? leads me to doubt it. I certainly have never seen Labrusca fruit here - The other I called V. aestivalis - I also send 2 forms of Euphorbia maculata - they seem too different - Am sorry I did not make a set of E. hyssopifolia last fall - I found the typical form on the Indian River (as well as the common var.) but did not think it worth while to collect much of it. I expect to travel extensively this year & no doubt shall find you some Pteris Cretica —

I am obliged for the offer of Lindheimer's plants, but I am being supplied by an excellent collector, J. Reverchon, of Dallas.

Yours truly

A. H. Curtiss.

P. S. I am hoping to receive a detailed description of Pinus Elliottii. I am becoming more familiar with it, but wish to know how you characterize it. C

Rec March 21
An — 28

Lemna minor
Wolffia (Wolfiella) gladiata Hegelm.
already by Ravenel and J. D. Smith in Florida

Talleyrand Place, near
Jacksonville, Fla.,

March 16. 1881.

Dr. Geo. Engelmann:

Dear Sir — I will be obliged if you will write me the names of the enclosed. The little eel-like aquatic was sent me a year or two ago, I think, by C. F. Austin, but I cannot find the specm.

The Lemna is probably what Chapman calls L. minor — Across Lake Monroe, at Sanford I found L. polyrrhiza. I made a set of the little Lemna, thinking it might do for my 5th Fascicle. If only L. minor, it will go in

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as a supplementary set, of which
I have many provided already.

Your Euphorbia polyphylla
I find to extend from the
Indian River to Bay Biscayne
and Charlotte Harbor.

Your Hypoxys leptocarpa I
find in Dunlawton Swamp as
well as on the St Johns.

Yours very truly

A. H. Curtiss.

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Rec. July 13
Ans. Engm. July 19 & Oct 17

[illegible]

Talleyrand Place, near
Jacksonville, Fla.,

July 7, 1881.

Dr. George Engelmann:

Dear Sir - I rec^d a letter from you - or a card - while travelling in S. Fla., & on my return found your article on the Tsuga Caroliniana. I expect to revisit its station & cut a tree of it within a month - if you wish to write me about it, please write at once.

In reply to an inquiry, I would say that Monanthochloe is very abundant on the low Keys, extending from K. West 50 miles eastward (also on W. coast), growing on rock where the highest tides partially submerge it - I never found it in flower but prepared a set for my last fascicle. It is an extremely interesting grass. At first sight I thought it to be some little flowering plant - of the [illegible] order.

Sorghum Halepense, which we have corresponded about, I collected in S. C. for my next Fascicle –

I have just been distributing my 2d Fascicle of Ferns & mail you a set herewith. I send with them some of my new finds which Watson & Sargent fail to identify – There are several trees also, but these I do not feel at liberty to send. They have the same No. as in the set sent to Cambridge.

No 2 is a high-climbing, woody vine from forests on Elliotts Key – Fo. not found.

No 5 – Ditto – Like Pisonia aculeata in all respects but fruit, which is very different – I send with it a panicle of the fr. of P. aculeata, collected some weeks earlier – P. aculeata has very viscid fruit ripe in May! – this in summer.

No 7 16 is a beautiful shrub 6 or 8 ft. high found only on Bahia Honda Key – with slender, virgate branches & small white berries, No 12 is an Agave, stemless, with flower stem as much as 26 ft. high. It is similar to A. Americana, but the leaves are more glaucous & have smooth edges. I failed to preserve any of them. It is called "Wild hemp", while A. rigida (more common) is called "Bamboo". Found from Cape Canaveral to Cape Sable and on the Keys. A. rigida extends farther north.

No 7 – A tall shrub or small tree found W. of Bay Biscayne.

No 17 – Another Pisonia – perhaps P. inermis being unarmed. The fr. appears like that of P. aculeata, but it is very different in other respects. Prof. Sargent guessed P. obtusata (!), which has fleshy berries & very different leaves. A shrub or small tree found only on the piney Keys.

No 18 An Ecastophyllum, with shiny leaves very different from those of E. Brownei, climbing high into trees. Found on Elliotts Key & one other Key.

No 20 "Eugenia brevipes", Sargent thinks more likely to be E. longipes. I imagine a shrub or small tree of the Keys & Bay Biscayne — fr. an edible berry ripe in June.

No 21 This is one of the trees which I ought not to send — but we have had a long dispute about it — & I don't know what Sargent now thinks about it — {The above coll in May.

57} Prostrate Euphorbias from rocky
60} pine woods N. of Bay Biscayne — June

100 — Erect Euphorbia from Cape Sable — July

145 — From low pine woods on the Caloosa River — fls. bluish-purple — 2°-4° — July

148 — Slender, much-branched shrub from Key West — 6°-8° — fls. white — July 1

I know you can determine some of these & I shall be much obliged for any assistance you can give me.

Yours truly
A. H. Curtiss —

E.
152 Garberi
173 adenoptera
with the Blodgettii
162 E deltoidea
Curtissii

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Rec. Febr. 16
Ans " 9

Key West, Fla.
Feby. 8, 1882.

Dr. George Engelmann.

Dear Sir — I am again exploring in S. Fla. & making many additions to the U. S. flora —

I send by mail with this specms. of the two Agaves of this region about which I once wrote you — I will distinguish them as *spiny* & *smooth*, the leaves of one being *comparatively* smooth-edged — Both have fl. stems 25 ft. high & bear young plants in the panicles — I never saw the spiny in fl. The *smooth* kind is abundant at Cape Sable — I have seen it in fl. near Cape Canaveral, & it fls. very freely on the Reef Keys — When in fl. the plant is nearly as large as A. Americana. The leaves are straight — The fls. appear in winter & spring — The perianth is frequently 12-divided, stamens 12, & style double. It is strictly stemless. The fls. sent are of this kind. The spiny kind grows from Mosquito Inlet to Cape Sable. On the Keys small, stemless plants are very abundant in the woods, but it very rarely flowers & not till after developing a woody stem 6°-8° high & 5'-6' diameter the leaves being at the summit. It grows on rocky ground (coral & coquina) in woods & copses, while the smooth kind grows in sandy fields next the sea.

I have just made a set of a Euphorbia, which I presume to be Chapman's E. inaequilatera - am I right? enclosed are some bits of it. Probably it is the same you found mixed with a spm. of E. adenoptera which I sent you. I have not yet learned the authority for the latter name.

Did I send you Fr. of E. deltoidea?
I had a lot done up to send you -
are Chapman's Cacti rightly named?
"Cereus monoclonos" & "C. triangularis"
are very common from K. West
to Cape Canaveral, the former
extending to Mosquito Inlet -
"Opuntia Ficus-Indicus" is abundant
on the Reef Keys. "O. polyantha" I
find only on No-name Key -
Until the 20th inst. please address
me at Miami; from the 20th inst.
to the 10th prox. at Key West;
after that at Jacksonville.

Yours very truly

A. H. Curtiss -

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109
60
6540
6
39240

109
65
545
654
7085

Rec March 30th
Ans. April 2

size of flowers?

Key West, Fla.
March 25th 1882

Dr. George Engelmann.

Dear Sir — I send by mail to-day a pkge. containing specms. of the two Agaves in question. Since the receipt of your letter I have studied them more closely & am inclined to think that they vary into each other. On Indian Key, where the Sisal Hemp was first introduced, I find spiny & nearly smooth growing together, both glaucous & some with stems a foot long. but not differing otherwise. The only conclusion I can arrive at that when it grows spontaneously on rocky ground, like that of the Keys, it becomes spiny & loses its glaucousness & on rich, rocky banks it develops a trunk some 6 ft. long & flowers. Judging from its distribution & the fact that it does not seed, I conclude that hurricanes distribute the ~~seeds~~ plantlets.

I send specms. of the smooth form from Indian Key & of the rough from near Miami (a rocky bank of Biscayne Bay), the two separated by moss. & both taken from flowering plants.

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The Biscayne plant measured about as follows; trunk 6° high & 6' thick to leaves, which occupied about 2° of trunk, making 8°; Fl. stem 18° high & 2½' diameter; panicle about 8° or 9° long & 2½° wide.

The fl. stem of the Indian Key, starting about 3° from ground measured about the same -

Perhaps the spiny kind is what Chapman calls var. rigida - I hope you will call it a distinct sp. or var. as I have prepared sets of both for distribution. The roots sent are from the panicles -

Next week I intend to send you the Cereus specms. & two more Euphorbias -

In haste, yours truly

A. H. Curtiss

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Rec April 4th

K. West —, March 27, 1882 —

Dr. Engelmann;

Dear Sir — Here are two more Euphorbias, both from rocky pine woods, A ~~[illegible]~~ E. adenoptera from W. of Bay Biscayne, B ~~[illegible]~~ E. blodgetti from Cudjoe Key — I believe the only S. Fla. sps. I have not before found are E. inaequilatera & E. centunculoides. Perhaps these are the sps. now sent —

Yours truly

A. H. Curtiss.

I have your monograph of Agave — Some Northerner is about to take off a cargo of Agave from the Keys.

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stellate
A. 9-10 ribs 12-16 short stars spines

I also send a pkge. of Cereus monoclonos?
B C. variabilis
& C. triangularis? & another kind Euphorbia Antiquorum occasionally spontaneous around this city & much cultivated, marked respectively A, B, & C. C. triangularis? does not climb & has no aerial roots. There is a similar kind in cultivation which climbs trees & sends down aerial roots, but the joints are broader & spineless - C. triangularis? usually is supported by bushes & sometimes falls over a branch, descends to the ground & then rises again, attaining a total length of 20 ft. or more. The other kinds are arborescent, with a trunk sometimes 6' in diameter - The branches of C. monoclonos? are erect. Both grow about 15° high - I saw C. monoclonos? in fruit on the Indian River - fr. nearly globular, about 2' long, red, smooth (I think) - Farther than this I know nothing of their fla. & fr.

Rec April 22d

Talleyrand Place, near
Jacksonville, Fla.,

April 15, 1882.

Dr. George Engelmann:-

I must not longer neglect your letters of the 2d & 5 insts. & card of Dec. 31 - My letter accompanying the Cacti was written before I put up the specms. When I came to cut the sp. C I was surprised to see a milky juice flow from it and quickly surmised that it was Euphorbiacea. So your determination does not surprise me - E. antiquorum is sparingly spontaneous around Key West city -
It has erect branches, a trunk & quite a tree like habit -
The same may be said of Cereus monoclonos. It looks just like some Western sps. - frequently pictured - This on Key West, where it abounds in the scrub.
On the rest of the coast it is mostly simple stemmed (not branched) & grows in woods like C. variabilis - I think ten is the usual number of angles -

In diameter it varies from 1 inch to 6 inches - the latter the main trunk. Possibly the much-branched kind is a different sp. The idea did not occur to me when on the Keys, but I am sure there is no difference in the branches & spines. The young Agaves I sent were all from panicles. Neither A. rigida or A. Sisalana seed, yet young plants (of A. rigida) are very abundant in the forests of the Keys - I believe they are blown by hurricanes from the panicles. Your suggestion that *A. rigida* is *A. Sisalana* returned to a natural state solves the vexed question to my satisfaction - *A. Sisalana* grows only where it was once planted, while *A. rigida* grows only in wild, uncleared grounds!

When A. rigida grows to flowering size it is always on rocky banks.

I enclose some pressed fls. of each. I meant to state that most of the fls. sent before were buds when gathered.

It occurred to me that the development of the pistils was arrested, although the perianth & stamens came out naturally – The leaves I sent of each were of average size – Those of A. Sisalana are 3' & probably 4' in width. A. rigida is in habit like our common Yucca aloifolia, a crown of leaves at the summit of a naked trunk, & central inflorescence I think both have purplish filaments on the plants – Sisalana has sometimes quite spiny leaves, but always glaucous & nearly stemless – On examination a trunk 1° or 1½° may be found under the leaves I received your work on Agave long ago, & recently your valuable monograph of Isoetes – Many thanks for both –

It occurred to me a year ago that your new var. of Q. ~~stellata~~ virens was probably Chapman's coast var.

of Q. stellata – The latter is a singular oak. In Apalachicola it grows to be a tree, without change of foliage. One would think that, if a mere var., the leaves would approach those of the Q. stellata found not far distant in the pine barrens. In the poor pine woods up the Apalachicola, as elsewhere in N. Fla., Q. stellata is frequently met with. It has a depauperate appearance, the foliage being close to the branches by reason of the shortness of the branchlets. The foliage is less strongly lobed than farther north, more like that of Q. alba.

I have never seen any Alismaceae in Fla. except Echinodorus parvulus, which grows on low commons around Tampa – not over 1' high.

Yours very truly

A. H. Curtiss

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P. S. "Come to think", Alismaceæ include Triglochin & Sagittaria, which of course occur in this state -

Tr. triandrum I found in a swamp near Mosquito Lagoon -

Sagittaria lancifolia is very common in marshes here & in the Everglades -

S. heterophylla I *think* I found in E. Fla.

S. graminea grows in pine-barren ponds (dry in summer) - It has a woody root-stock -

S. natans, in a bog near Jacksonville.

S. natans lorata, on banks of the St. Johns.

The last two & S. lancifolia were in my first two fascicles, which I think you have -

On the Potomac I found all your vars. of S. variabilis except fluitans & pubescens.

Near the Peaks of Otter, Bedford Co. vars. pubescens & hastata were the only Sagittarias -

over

Talleyrand Place, near
Jacksonville, Fla.,
1881.

I wish to write an article on the Sisal Hemp for a Fla. paper, and shall be thankful for any data you are pleased to give me as to manufacture, &c. What is the geographical distribution of A. rigida & A. Sisalana? What was A. Sisalana called before Perrine's time? What are the leading distinctions, recognizable by the unscientific, between A. Sisalana & A. Americana?

I have heard much of a large Agave called in the Bahamas "Bamboo", a name applied also to the Fla. A. rigida. It is said to grow 40° high & to have a fl. stem a foot thick, which, when dry, is made into rafts —

Do you know the sp.?

A.H.C.